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ENTERED BY	P. LEMKE
CHECKED BY	P. COOPER
PROJ. ENGR.	B. KRAMER
REGIONAL ADM.	S. ROARK

REVISION	DATE	BY

REGION NO. 10 | STATE WASH
JOB NUMBER 23C508
CONTRACT NO.
FED.AID PROJ.NO.
LOCATION NO. XL6186

P.E. STAMP BOX
DATE

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REGIONAL ADM.	S. ROARK

REVISION	DATE	BY

REGION NO. 10 | STATE WASH
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INDEX

PLAN REF NO IN4

SHEET 8 OF 95 SHEETS

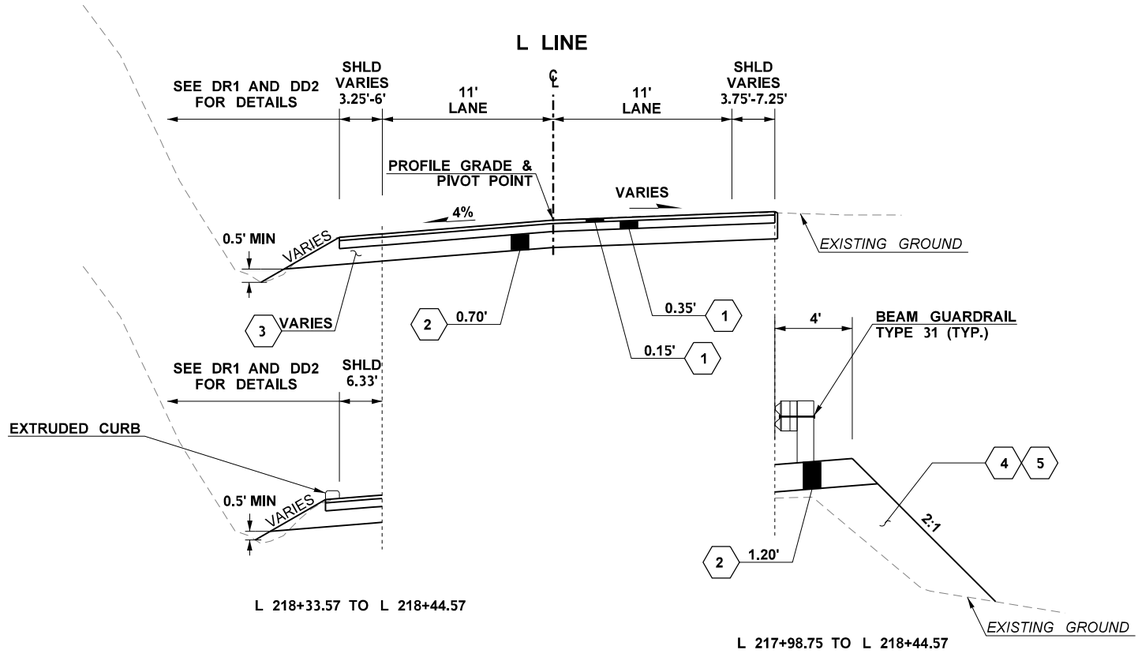
PROJECT LICENSED PROFESSIONAL CERTIFICATES

Andrew D. Byrd Feb 7, 2024 AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.	Kevin Kim Feb 8, 2024 AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.	Gregory S. Laird Gregory S. Laird (Feb 8, 2024 05:29 PST) Gregory S. Laird Feb 8, 2024 AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.	AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.
Lorcan B. French Feb 8, 2024 AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.	Rodney C Langer Jr Rodney C Langer Jr (Feb 8, 2024 07:02 PST) Rodney C Langer Jr Feb 8, 2024 AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.	AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.	AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.
Julie Heilman Feb 7, 2024 AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.	AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.	AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.	AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.

NOTES:

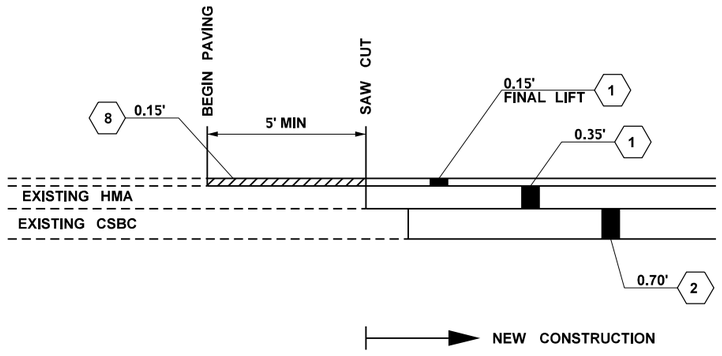
THIS PLAN SET WAS DEVELOPED ELECTRONICALLY UNDER THE DIRECT SUPERVISION OF THE LICENSED PROFESSIONALS THAT HAVE AFFIXED THEIR SIGNATURE TO THIS PAGE.

THIS SHEET SERVES AS THE CERTIFICATION BY THE ABOVE LICENSED PROFESSIONALS OF ALL SHEETS IN THIS PLAN SET WHERE THEIR STAMPS AND SIGNATURES APPEAR.



ROADWAY SECTION A

L 216+90.00 TO L 218+44.57



OFFSET MILLING DETAIL

L 216+90.00 TO L 216+95.00
L 218+15.00 TO L 218+20.00

LEGEND	
1	HMA CLASS ½" (PG 58H-22)
2	CRUSHED SURFACING BASE COURSE
3	ROADWAY EXCAVATION INCL. HAUL*
4	COMMON BORROW INCL. HAUL*
5	EMBANKMENT COMPACTION*
8	PLANING BITUMINOUS PAVEMENT

NOTES:

1. ALL HMA DEPTHS SHOWN ARE FINAL COMPACTED DEPTHS. SEE STD. SPEC. 5-04.3(7) FOR MAXIMUM COMPACTED DEPTHS PER LAYER.
2. ALL CRUSHED SURFACING DEPTHS SHOWN ARE COMPACTED DEPTHS. SEE STD. SPEC. 4-04.3(4) FOR MAXIMUM COMPACTED DEPTHS PER COURSE.
3. SEE PAVING AND PAVEMENT MARKING PLAN FOR VARIABLE WIDTH DIMENSIONS. UNLESS OTHERWISE NOTED, VARIABLE WIDTH DIMENSIONS REPRESENT MINIMUM AND MAXIMUM VALUES WITHIN STATION RANGES SHOWN.
4. SEE PAVING AND PAVEMENT MARKING PLAN, AND QUANTITY TABULATION SHEETS FOR GUARDRAIL LOCATIONS AND TYPE.
5. SEE SUPERELEVATION DIAGRAMS ON PROFILE SHEETS FOR VARIABLE CROSS SLOPES.

* INCLUDED IN BID ITEM "EARTHWORK SITE", L.S.

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DESIGNED BY	P. LEMKE
ENTERED BY	P. LEMKE
CHECKED BY	P. COOPER
PROJ. ENGR.	B. KRAMER
REGIONAL ADM.	S. ROARK

REVISION	DATE	BY

REGION NO. 10 | STATE WASH | FED.AID PROJ.NO.
JOB NUMBER 23C508
CONTRACT NO.
LOCATION NO. XL6186

ANDREW D. BYRD — STATE OF WASHINGTON — 39533 — REGISTERED PROFESSIONAL ENGINEER
SEE SHEET CT1 DATE
P.E. STAMP BOX

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ROADWAY SECTIONS

PLAN REF NO RS1
SHEET 10 OF 95 SHEETS

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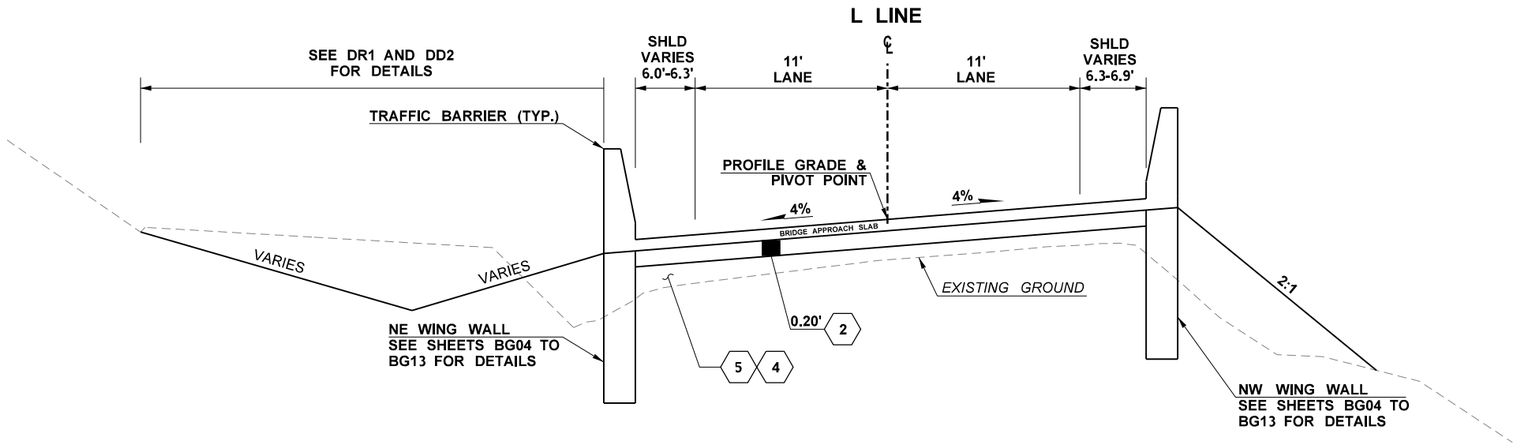
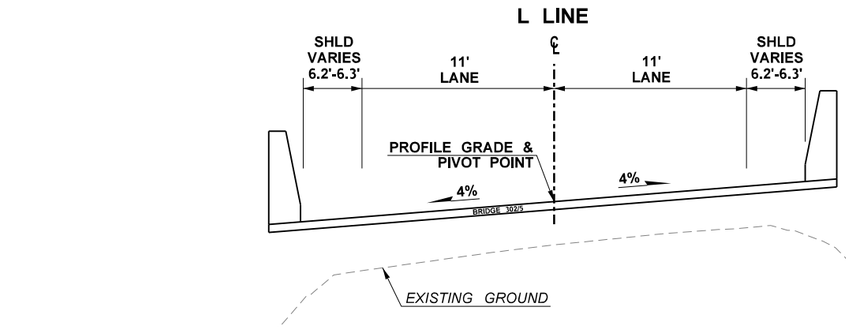


ROADWAY SECTION B

L 218+44.57 TO L 218+74.58

LEGEND	
1	HMA CLASS ½" (PG 58H-22)
2	CRUSHED SURFACING BASE COURSE
3	ROADWAY EXCAVATION INCL. HAUL*
4	COMMON BORROW INCL. HAUL*
5	EMBANKMENT COMPACTION*
8	PLANING BITUMINOUS PAVEMENT



ROADWAY SECTION C

L 218+74.58 TO L 219+17.42

NOTES:

1. ALL HMA DEPTHS SHOWN ARE FINAL COMPACTED DEPTHS. SEE STD. SPEC. 5-04.3(7) FOR MAXIMUM COMPACTED DEPTHS PER LAYER.
2. STATION CALL-OUTS REPRESENT WHERE THE CONSTRUCTION CENTERLINE CROSSES THE PAVING LIMIT. SEE PAVING PLANS AND BRIDGE SHEETS FOR MORE DETAILS.
3. ALL CRUSHED SURFACING DEPTHS SHOWN ARE COMPACTED DEPTHS. SEE STD. SPEC. 4-04.3(4) FOR MAXIMUM COMPACTED DEPTHS PER COURSE.
4. SEE PAVING AND PAVEMENT MARKING PLAN FOR VARIABLE WIDTH DIMENSIONS. UNLESS OTHERWISE NOTED, VARIABLE WIDTH DIMENSIONS REPRESENT MINIMUM AND MAXIMUM VALUES WITHIN STATION RANGES SHOWN.
5. SEE SHEETS BG24 TO BG30 FOR TRAFFIC BARRIER AND APPROACH SLAB DETAILS.

* INCLUDED IN BID ITEM "EARTHWORK SITE", L.S.

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PROJ. ENGR.	B. KRAMER						
REGIONAL ADM.	S. ROARK	REVISION	DATE	BY			

ANDREW D. BYRD — STATE OF WASHINGTON — 39533 — REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1 FOR DATE

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ROADWAY SECTIONS

PLAN REF NO RS2

SHEET 11 OF 95 SHEETS

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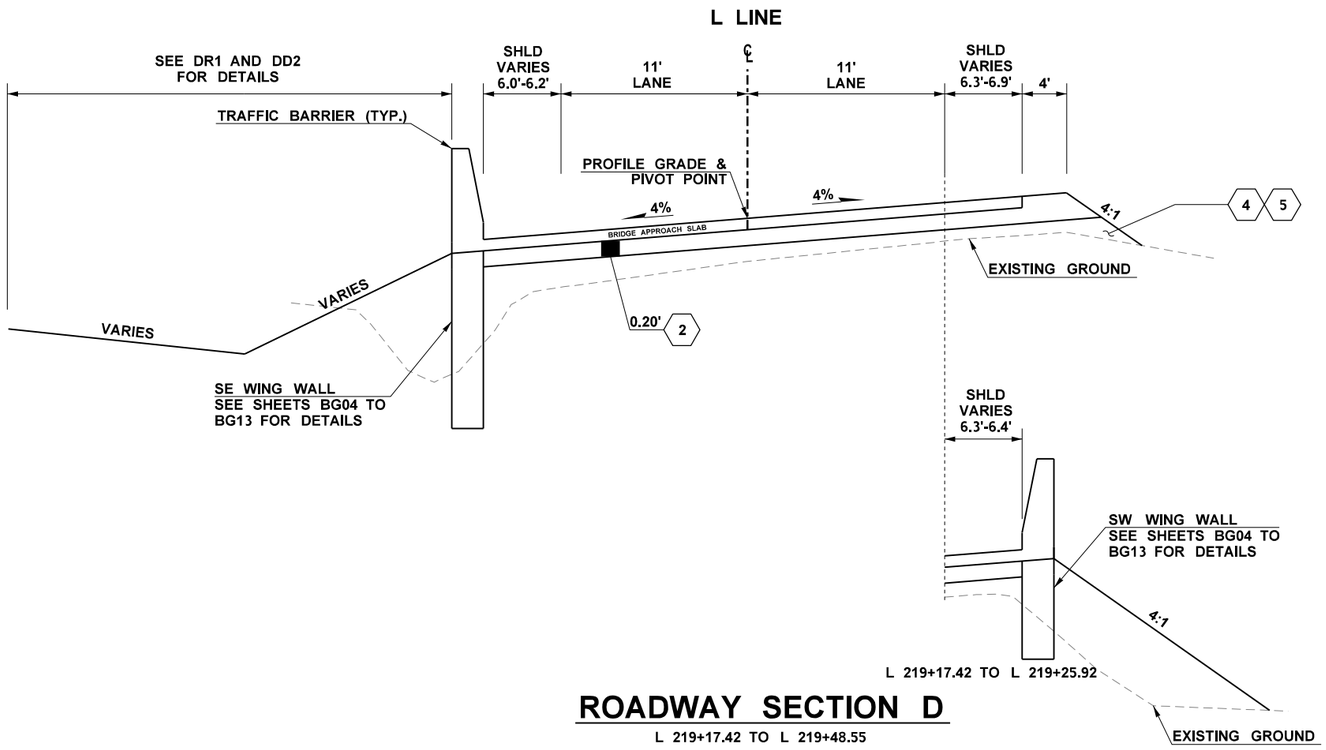
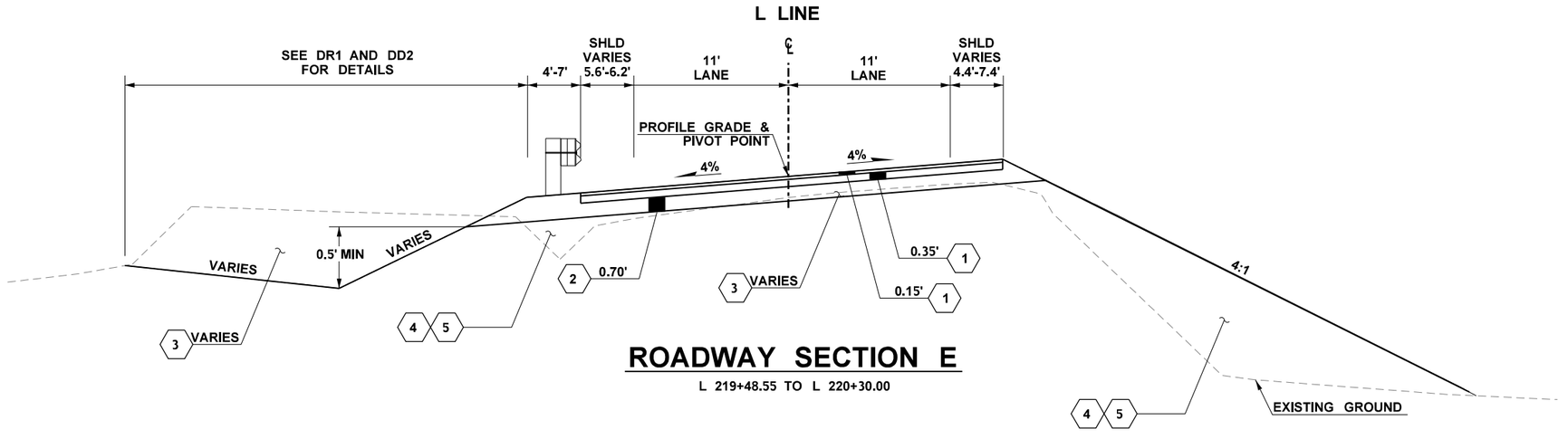


ROADWAY SECTION D

L 219+17.42 TO L 219+48.55



ROADWAY SECTION E

L 219+48.55 TO L 220+30.00

LEGEND	
1	HMA CLASS ½" (PG 58H-22)
2	CRUSHED SURFACING BASE COURSE
3	ROADWAY EXCAVATION INCL. HAUL*
4	COMMON BORROW INCL. HAUL*
5	EMBANKMENT COMPACTION*
8	PLANING BITUMINOUS PAVEMENT

* INCLUDED IN BID ITEM "EARTHWORK SITE", L.S.

NOTES:

1. ALL HMA DEPTHS SHOWN ARE FINAL COMPACTED DEPTHS. SEE STD. SPEC. 5-04.3(7) FOR MAXIMUM COMPACTED DEPTHS PER LAYER.
2. STATION CALL-OUTS REPRESENT WHERE THE CONSTRUCTION CENTERLINE CROSSES THE PAVING LIMIT. SEE PAVING PLANS AND BRIDGE SHEETS FOR MORE DETAILS.
3. ALL CRUSHED SURFACING DEPTHS SHOWN ARE COMPACTED DEPTHS. SEE STD. SPEC. 4-04.3(4) FOR MAXIMUM COMPACTED DEPTHS PER COURSE.
4. SEE PAVING AND PAVEMENT MARKING PLAN FOR VARIABLE WIDTH DIMENSIONS. UNLESS OTHERWISE NOTED, VARIABLE WIDTH DIMENSIONS REPRESENT MINIMUM AND MAXIMUM VALUES WITHIN STATION RANGES SHOWN.
5. SEE PAVING AND PAVEMENT MARKING PLAN, AND QUANTITY TABULATION SHEETS FOR GUARDRAIL LOCATIONS AND TYPE.
6. SEE SHEETS BG24 TO BG30 FOR TRAFFIC BARRIER AND APPROACH SLAB DETAILS.

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PROJ. ENGR.	B. KRAMER						
REGIONAL ADM.	S. ROARK	REVISION	DATE	BY			

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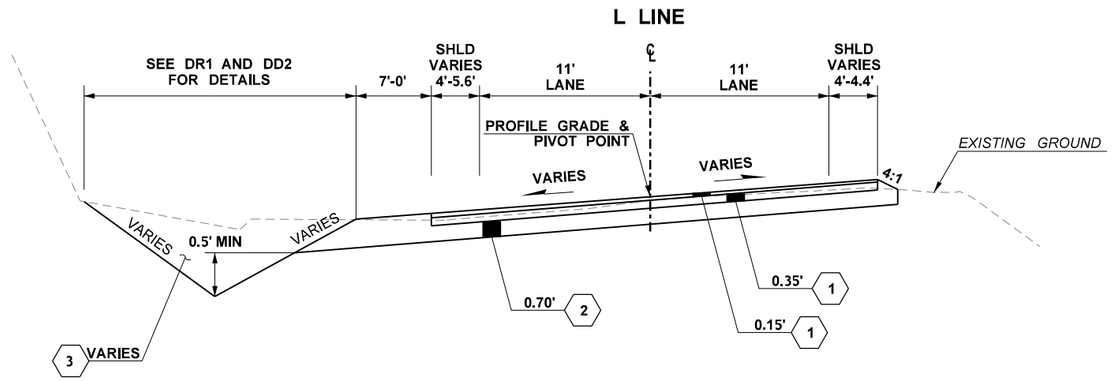
ROADWAY SECTIONS

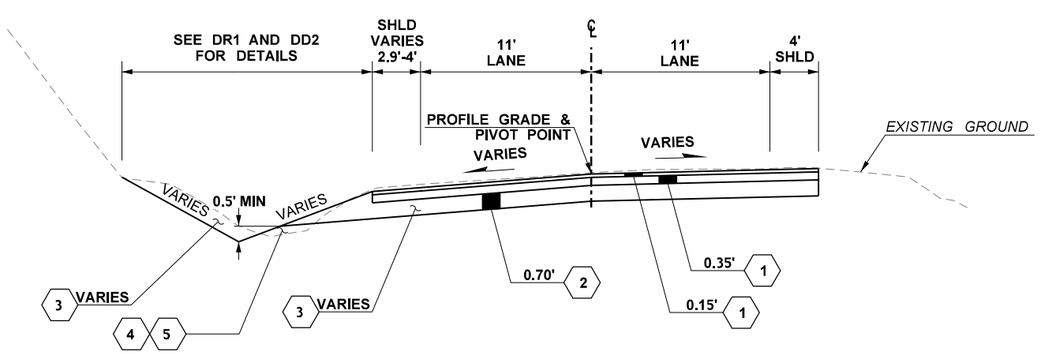
PLAN REF NO RS3

SHEET 12 OF 95 SHEETS



ROADWAY SECTION F

L 220+30.00 TO L 220+86.00



ROADWAY SECTION G

L 220+86.00 TO L 221+20.00

LEGEND	
1	HMA CLASS ½" (PG 58H-22)
2	CRUSHED SURFACING BASE COURSE
3	ROADWAY EXCAVATION INCL. HAUL*
4	COMMON BORROW INCL. HAUL*
5	EMBANKMENT COMPACTION*
8	PLANING BITUMINOUS PAVEMENT

* INCLUDED IN BID ITEM "EARTHWORK SITE", L.S.

NOTES:

1. ALL HMA DEPTHS SHOWN ARE FINAL COMPACTED DEPTHS. SEE STD. SPEC. 5-04.3(7) FOR MAXIMUM COMPACTED DEPTHS PER LAYER.
2. ALL CRUSHED SURFACING DEPTHS SHOWN ARE COMPACTED DEPTHS. SEE STD. SPEC. 4-04.3(4) FOR MAXIMUM COMPACTED DEPTHS PER COURSE.
3. SEE PAVING AND PAVEMENT MARKING PLAN FOR VARIABLE WIDTH DIMENSIONS. UNLESS OTHERWISE NOTED, VARIABLE WIDTH DIMENSIONS REPRESENT MINIMUM AND MAXIMUM VALUES WITHIN STATION RANGES SHOWN.
4. SEE SUPERELEVATION DIAGRAMS ON PROFILE SHEETS FOR VARIABLE CROSS SLOPES.

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PROJ. ENGR.	B. KRAMER						
REGIONAL ADM.	S. ROARK	REVISION	DATE	BY			

ANDREW D. BYRD — STATE OF WASHINGTON — 39833 — REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1 DATE

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ROADWAY SECTIONS

PLAN REF NO **RS4**

SHEET 13 OF 95 SHEETS

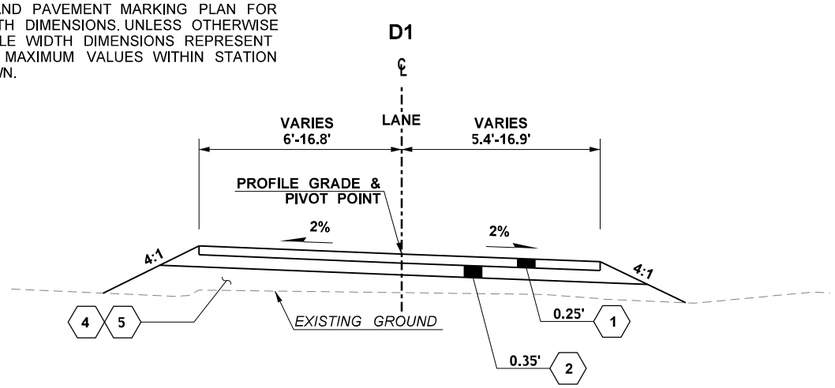
NOTES:

1. ALL HMA DEPTHS SHOWN ARE FINAL COMPACTED DEPTHS. SEE STD. SPEC. 5-04.3(7) FOR MAXIMUM COMPACTED DEPTHS PER LAYER.
2. HMA WEARING COURSE SHALL BE 0.15'.
3. ALL CRUSHED SURFACING DEPTHS SHOWN ARE COMPACTED DEPTHS. SEE STD. SPEC. 4-04.3(4) FOR MAXIMUM COMPACTED DEPTHS PER COURSE.
4. SEE PAVING AND PAVEMENT MARKING PLAN FOR VARIABLE WIDTH DIMENSIONS. UNLESS OTHERWISE NOTED, VARIABLE WIDTH DIMENSIONS REPRESENT MINIMUM AND MAXIMUM VALUES WITHIN STATION RANGES SHOWN.

* INCLUDED IN BID ITEM "EARTHWORK SITE", L.S.

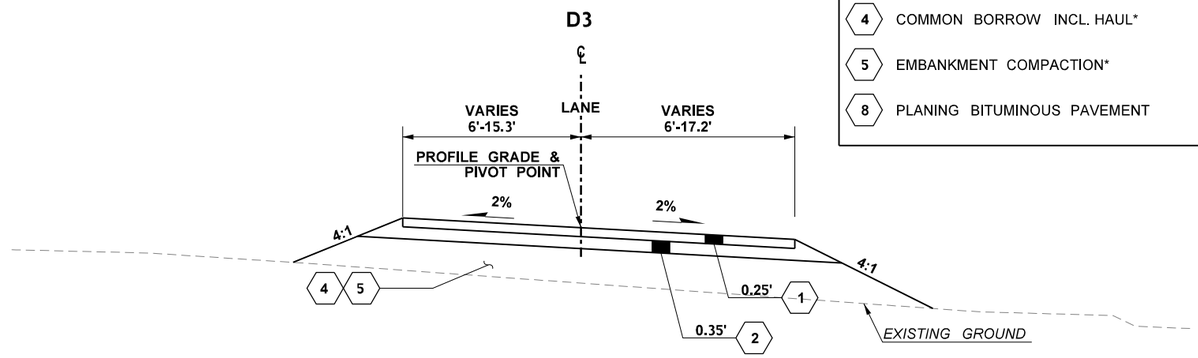
LEGEND

1	HMA CLASS ½" (PG 58H-22)
2	CRUSHED SURFACING BASE COURSE
3	ROADWAY EXCAVATION INCL. HAUL*
4	COMMON BORROW INCL. HAUL*
5	EMBANKMENT COMPACTION*
8	PLANING BITUMINOUS PAVEMENT



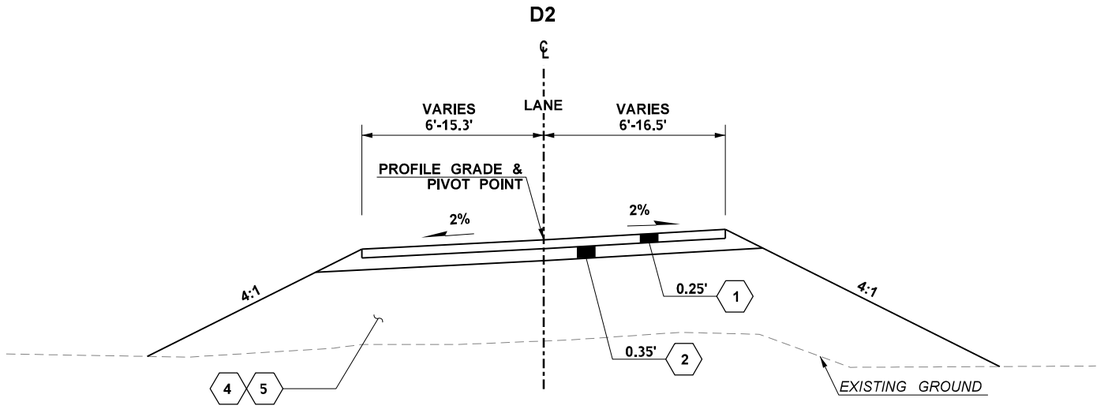
ROADWAY SECTION D1

D1 10+07.00 TO D1 10+40.05



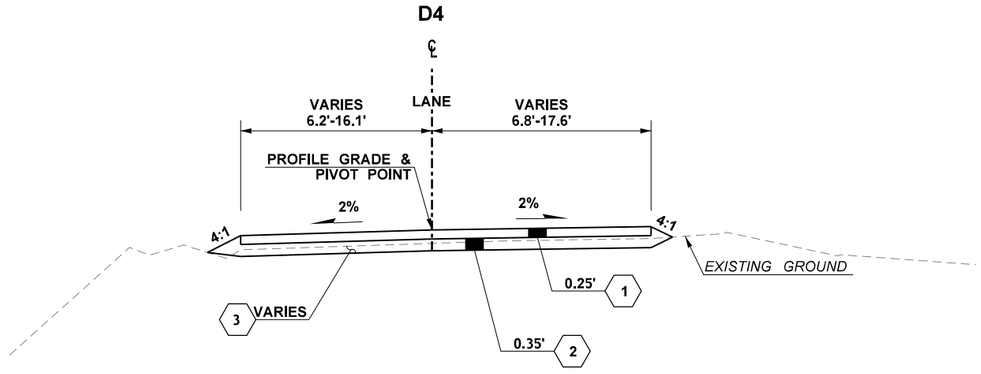
ROADWAY SECTION D3

D3 30+10.00 TO D3 31+58.11



ROADWAY SECTION D2

D2 20+40.00 TO D2 21+15.98



ROADWAY SECTION D4

D4 40+11.00 TO D4 40+45.09

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PROJ. ENGR.	B. KRAMER						
REGIONAL ADM.	S. ROARK	REVISION	DATE	BY			

ANDREW D. BYRD — STATE OF WASHINGTON — 39533 — REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1 DATE

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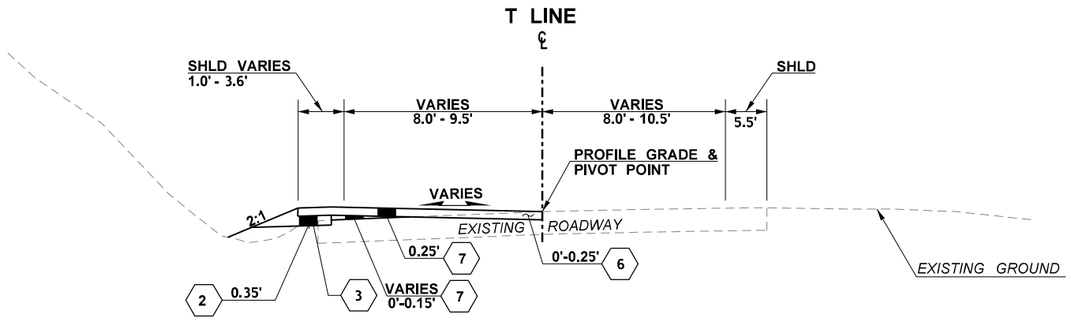
ROADWAY SECTIONS

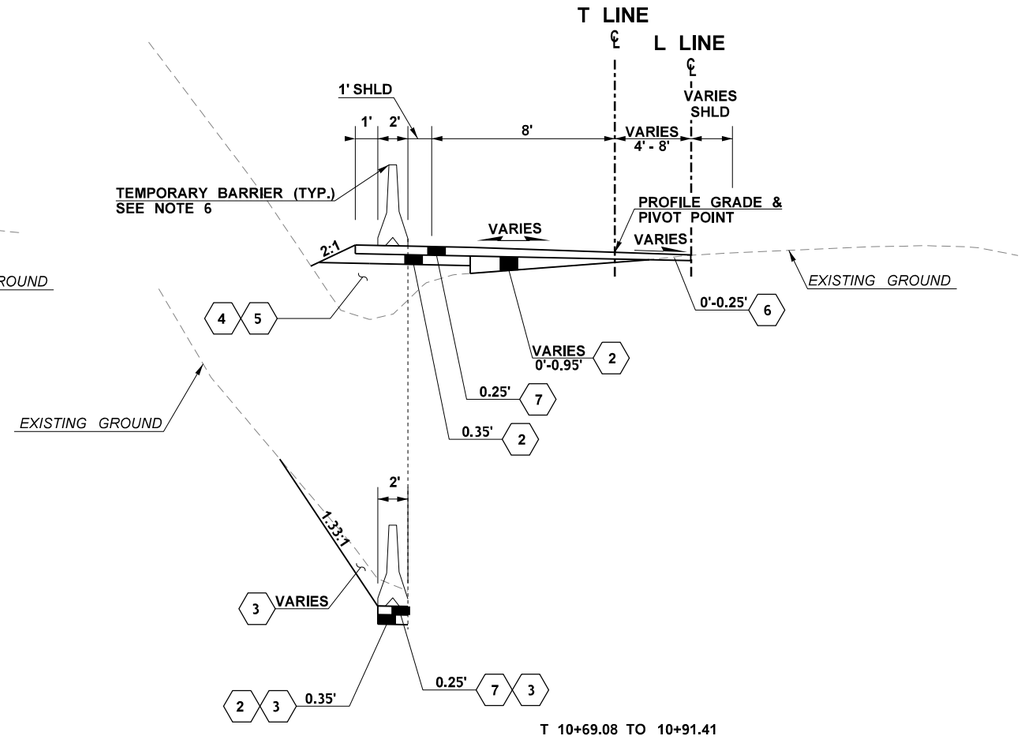
PLAN REF NO RS5

SHEET 14 OF 95 SHEETS



ROADWAY SECTION T1

T 10+19.16 TO 10+39.17



T 10+69.08 TO 10+91.41

ROADWAY SECTION T2

T 10+39.17 TO 10+91.41

LEGEND

7	COMMERCIAL HMA
2	CRUSHED SURFACING BASE COURSE
3	ROADWAY EXCAVATION INCL. HAUL*
4	COMMON BORROW INCL. HAUL*
5	EMBANKMENT COMPACTION*
6	PLANING BITUMINOUS PAVEMENT

NOTES:

1. ALL HMA DEPTHS SHOWN ARE FINAL COMPACTED DEPTHS. SEE STD. SPEC. 5-04.3(7) FOR MAXIMUM COMPACTED DEPTHS PER LAYER.
2. ALL CRUSHED SURFACING DEPTHS SHOWN ARE COMPACTED DEPTHS. SEE STD. SPEC. 4-04.3(4) FOR MAXIMUM COMPACTED DEPTHS PER COURSE.
3. SEE PAVING AND PAVEMENT MARKING PLAN FOR VARIABLE WIDTH DIMENSIONS. UNLESS OTHERWISE NOTED, VARIABLE WIDTH DIMENSIONS REPRESENT MINIMUM AND MAXIMUM VALUES WITHIN STATION RANGES SHOWN.
4. SEE SUPERELEVATION DIAGRAMS ON PROFILE SHEETS FOR VARIABLE CROSS SLOPES.
5. SEE TEMPORARY PAVING PLAN SHEET TPV1 FOR TEMPORARY PAVEMENT MARKINGS AND TEMPORARY BARRIER LOCATIONS.
6. TEMPORARY BARRIERS SHALL BE ANCHORED IN ACCORDANCE WITH STANDARD PLAN K-80.35.

* INCLUDED IN BID ITEM "EARTHWORK SITE", L.S.

FILE NAME	c:\users\lemkep\pw_wsdot\d0545011\XL6186_PS_TRS_001.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
TIME	9:35:39 AM				10	WASH	
DATE	2/2/2024				JOB NUMBER		
PLOTTED BY	LEMKEP				23C508		
DESIGNED BY	P. LEMKE				CONTRACT NO.		LOCATION NO.
ENTERED BY	P. LEMKE						XL6186
CHECKED BY	P. COOPER						
PROJ. ENGR.	B. KRAMER						
REGIONAL ADM.	S. ROARK	REVISION	DATE	BY			

ANDREW D. BYRNE — STATE OF WASHINGTON — 19983 — REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1 FOR P.E. STAMP BOX

DATE

JACOBS

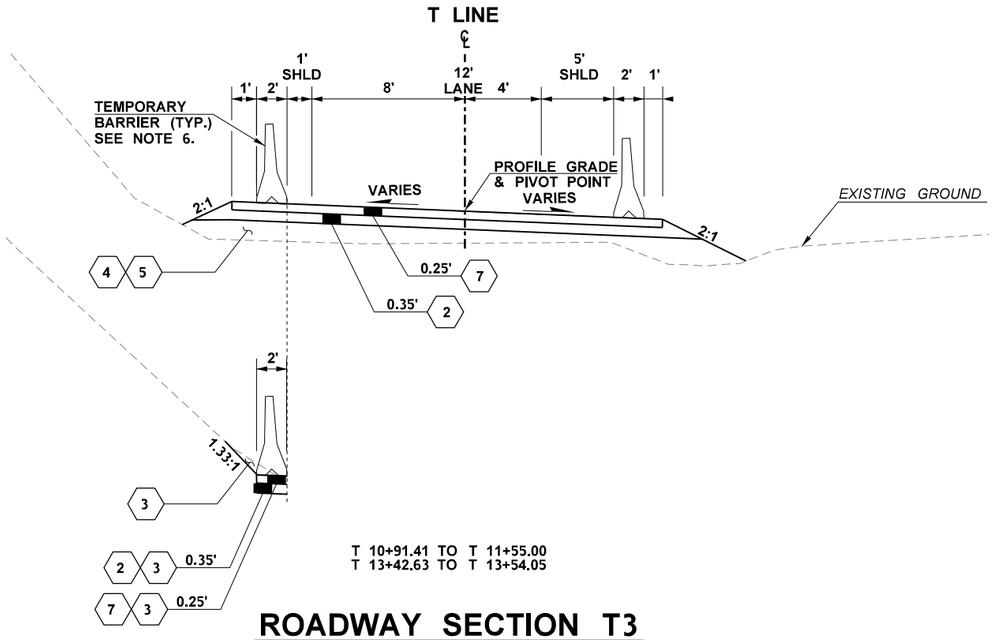
Washington State Department of Transportation

SR 302
VICTOR CREEK
REMOVE FISH BARRIER

TEMPORARY ROADWAY SECTIONS

PLAN REF NO
TRS1

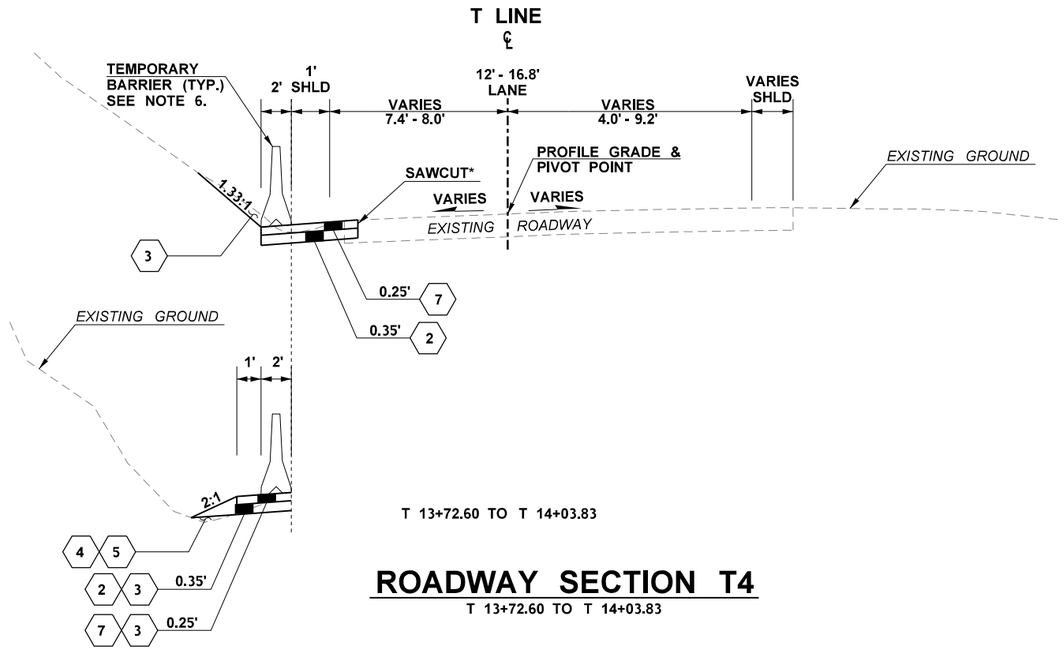
SHEET 15 OF 95 SHEETS



T 10+91.41 TO T 11+55.00
T 13+42.63 TO T 13+54.05

ROADWAY SECTION T3

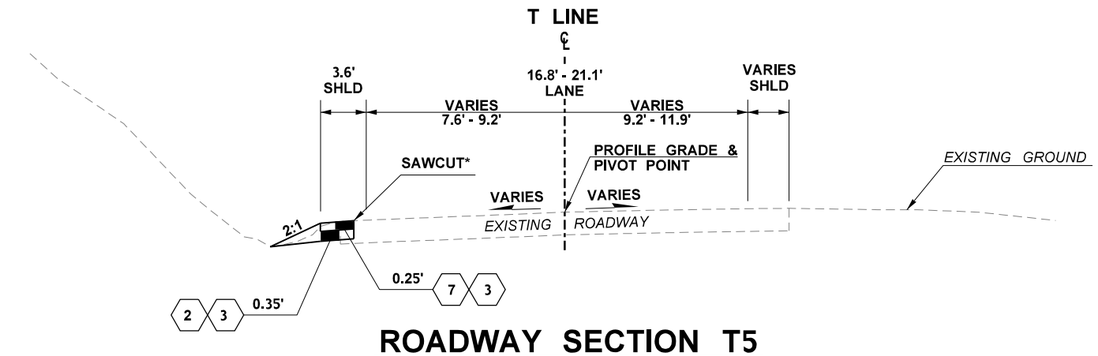
T 10+91.41 TO T 12+15.07
T 12+45.07 TO T 13+72.60



T 13+72.60 TO T 14+03.83

ROADWAY SECTION T4

T 13+72.60 TO T 14+03.83



ROADWAY SECTION T5

T 14+03.83 TO T 14+23.07

LEGEND

7	COMMERCIAL HMA
2	CRUSHED SURFACING BASE COURSE
3	ROADWAY EXCAVATION INCL. HAUL**
4	COMMON BORROW INCL. HAUL**
5	EMBANKMENT COMPACTION**

NOTES:

1. ALL HMA DEPTHS SHOWN ARE FINAL COMPACTED DEPTHS. SEE STD. SPEC. 5-04.3(7) FOR MAXIMUM COMPACTED DEPTHS PER LAYER.
2. ALL CRUSHED SURFACING DEPTHS SHOWN ARE COMPACTED DEPTHS. SEE STD. SPEC. 4-04.3(4) FOR MAXIMUM COMPACTED DEPTHS PER COURSE.
3. SEE PAVING AND PAVEMENT MARKING PLAN FOR VARIABLE WIDTH DIMENSIONS. UNLESS OTHERWISE NOTED, VARIABLE WIDTH DIMENSIONS REPRESENT MINIMUM AND MAXIMUM VALUES WITHIN STATION RANGES SHOWN.
4. SEE SUPERELEVATION DIAGRAMS ON PROFILE SHEETS FOR VARIABLE CROSS SLOPES.
5. SEE TEMPORARY PAVING PLAN SHEET TPV1 FOR TEMPORARY PAVEMENT MARKINGS AND TEMPORARY BARRIER LOCATIONS.
6. TEMPORARY BARRIERS SHALL BE ANCHORED IN ACCORDANCE WITH STANDARD PLAN K-80.35.

* SAWCUT 1' FROM EXISTING EDGE OF PAVEMENT

** INCLUDED IN BID ITEM "EARTHWORK SITE", L.S.

FILE NAME	c:\users\lemkep\pw_wsdot\d0545011\XL6186_PS_TRS_002.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
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DATE	2/2/2024				JOB NUMBER		
PLOTTED BY	LEMKEP				23C508		
DESIGNED BY	P. LEMKE				CONTRACT NO.		LOCATION NO.
ENTERED BY	P. LEMKE						XL6186
CHECKED BY	P. COOPER						
PROJ. ENGR.	B. KRAMER						
REGIONAL ADM.	S. ROARK	REVISION	DATE	BY			

ANDREW D. BYRD — STATE OF WASHINGTON — 39537 — REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1 DATE

P.E. STAMP BOX

JACOBS

Washington State Department of Transportation

SR 302
VICTOR CREEK
REMOVE FISH BARRIER

TEMPORARY ROADWAY SECTIONS

PLAN REF NO
TRS2

SHEET 16 OF 95 SHEETS

T.22N. R.1W. W.M.

PRIMARY CONTROL TABLE					
	HORIZONTAL DATUM 4602 WA SOUTH NAD (83/91) US feet		PROJECT DATUM COMBINED FACTOR 1.00001417		VERTICAL DATUM NAVD 88
DESIGNATION	NORTHING	EASTING	NORTHING	EASTING	ELEVATION
ALLYN	758430.944	1064551.847	1086503.115	1392619.514	4.626
ALLYN RAMP	756269.163	1063924.368	1084341.367	1391992.044	13.976

TRANSFORM SPC TO PDC (SPC US Feet * (1/CF)) + ((39.37/12) * 100000)=PDC
TRANSFORM PDC TO SPC (PDC US Feet - ((39.37/12) * 100000)) * CF=SPC
For Report of Survey Mark https://www.wsdot.wa.gov/monument/search.aspx

BEGIN CONSTRUCTION
SR 302 MP 4.10
L 216+76.53 P.O.T. =
T 10+00.00 P.C. (0') =
RW 216+76.53

BEGIN PROJECT
SR 302 MP 4.10
L 216+90.00 P.O.T. =
RW 216+90.00

TEMPORARY CONSTRUCTION EASEMENT

L 218+25.00 (115.00' LT.)
L 220+00.00 (115.00' LT.)
L 216+29.80 (75.00' LT.)
L 218+25.00 (75.00' LT.)
L 220+00.00 (75.00' LT.)
L 221+20.00 (75.00' LT.)
L 216+11.70 (50.00' LT.)
L 221+20.00 (50.00' LT.)
L 222+02.82 (50.00' LT.)
WSDOT ROW

END VC LINE
VC 58+48.35 P.O.T. =
L 219+18.79 P.O.C.

END D3 LINE
D3 31+75.00 P.O.T. =
L 219+61.60 P.O.C.

END T LINE
SR 302 MP 4.20
T 14+44.40 P.T. =
L 221+15.51 P.O.T.

T 11+19.45 P.I.
T 11+68.69 P.R.C.
T 10+68.86 P.R.C.
T 12+21.49 P.I.
T 12+74.27 P.R.C.
T 13+24.08 P.I.
L 220+94.22 P.T.
T LINE
N64°07'25"E
L 216+21.03 P.T.
VC 58+00.71 P.T.
VC 57+94.22 P.C.
L 222+02.82 P.C.
10
S33°46'02"E
L 217+39.56 P.C.
L 218+95.96 P.O.C. =
VC 57+62.29 P.O.T.
VC LINE
N67°50'29"E
T 13+72.60 P.R.C.
220
S45°43'13"E
L 216+76.53 P.O.T.
T 10+35.05 P.I.
SR 302
L LINE
T 14+09.20 P.I.

END D1 LINE
D1 10+55.00 P.O.T. =
L 217+35.94 P.O.C.

END D4 LINE
D4 40+60.00 P.O.T. =
L 220+67.00 P.O.C.

END PROJECT
SR 302 MP 4.20
L 221+20.00 P.O.T.

L 216+21.03 (50.00' RT.)
D1 LINE
N56°13'58"E
D2 LINE
L 219+17.53 P.I.
N48°52'20"E
D3 31+51.68 P.T.
D4 LINE
N45°07'46"E
SR302 218+05.88 (50.00' RT.)
L 218+40.00 (50.00' RT.)
VC 57+41.33 P.T.
VC 57+35.72 P.C.
N51°45'45"E
L 218+94.46 (50.00' RT.)
D3 LINE
D3 31+36.03 P.I.
D3 31+19.19 P.R.C.
L 221+74.06 (50.00' RT.)
L 221+74.06 (60.00' RT.)
WSDOT ROW
L 222+02.82 (60.00' RT.)
WSDOT ROW
VC 57+23.48 P.T.
N51°17'48"E
D3 31+05.53 P.I.
L 220+30.13 (50.00' RT.)
40
VC 57+15.78 P.C.
57
N73°49'46"E
D3 30+91.80 P.C.
N75°38'38"E
D3 30+76.16 P.T.
L 220+30.13 (90.00' RT.)
TEMPORARY CONSTRUCTION EASEMENT

BEGIN D1 LINE
D1 10+00.00 P.O.T.

BEGIN D4 LINE
D4 40+00.00 P.O.T.

END D2 LINE
D2 21+30.00 P.O.T. =
L 217+81.27 P.O.C.

L 218+04.74 (100.00' RT.)
L 217+63.73 (50.00' RT.)
L 217+59.89 (100.00' RT.)

BEGIN VC LINE
VC 57+00.00 P.O.T.

D3 30+52.73 P.I.
D3 30+27.77 P.C.
L 219+40.00 (125.00' RT.)
L 218+97.25 (125.00' RT.)
TEMPORARY CONSTRUCTION EASEMENT
TEMPORARY CONSTRUCTION EASEMENT
L 218+98.98 (175'.00' RT.)
N40°59'15"E
30
L 219+71.34 (175.00' RT.)
L 219+73.14 (90.00' RT.)

BEGIN D2 LINE
D2 20+00.00 P.O.T.

BEGIN D3 LINE
D3 30+00.00 P.O.T.

CURVE DATA							
ALIGNMENT	P.I. STATION	NORTHING	EASTING	DELTA	RADIUS	LENGTH	TANGENT
L	219+17.53	1078612.02	1395839.74	11°57'11" LT	1700'	354.65'	177.97'
D3	30+52.73	1078541.99	1395762.53	34°39'23" RT	80'	48.39'	24.96'
D3	31+05.53	1078555.46	1395815.16	10°27'42" RT	150'	27.39'	13.73'
D3	31+36.03	1078557.54	1395845.67	37°13'59" LT	50'	32.49'	16.84'
VC	57+19.68	1078613.42	1395796.68	22°04'01" LT	20'	7.70'	3.90'
VC	57+52.83	1078625.16	1395811.57	16°04'44" RT	20'	5.61'	2.83'
VC	58+08.51	1078647.40	1395866.18	03°43'04" LT	100'	6.49'	3.25'
T	10+35.05	1078783.23	1395725.27	26°18'11" LT	150'	68.86'	35.05'
T	11+19.45	1078740.50	1395799.48	22°52'42" RT	250'	99.83'	50.59'
T	12+21.49	1078658.14	1395861.98	03°38'23" LT	1662'	105.58'	52.81'
T	13+24.08	1078580.49	1395929.08	22°32'12" RT	250'	98.34'	49.81'
T	14+09.20	1078498.45	1395956.21	27°25'31" LT	150'	71.80'	36.60'

0 20 40
SCALE IN FEET

NOTES:

1. THE BASIS OF BEARING IS DETERMINED FROM THE WASHINGTON STATE COORDINATE SYSTEM SOUTH ZONE (NAD 83/2011).

   THE DISTANCES SHOWN ARE GROUND DISTANCES IN U.S. SURVEY FEET.

   PER ROW 58.09.130, ANY MONUMENT OR CORNER DISTURBED BY THE CONTRACTORS OPERATIONS SHALL BE REPLACED AT NO ADDITIONAL COST TO THE CONTRACTING AGENCY.

pw:\\projectstore.wsdot.wa.gov:WSDOT\Documents_HQ\Fish Passage\ORproj\0001\Y12554\Task Order AQ\700PROJTEC\702 Roadway\Sheets\XL6186_PS_AL_001.dgn

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TIME	5:34:59 PM				10	WASH	
DATE	1/31/2024				JOB NUMBER		
PLOTTED BY	LEMKEP				23C508		
DESIGNED BY	P. LEMKE				CONTRACT NO.		LOCATION NO.
ENTERED BY	P. LEMKE						XL6186
CHECKED BY	P. COOPER						
PROJ. ENGR.	B. KRAMER						
REGIONAL ADM.	S. ROARK	REVISION	DATE	BY			

ANDREW D. BYARD — STATE OF WASHINGTON — 39833 — REGISTERED PROFESSIONAL ENGINEER
SEE SHEET CT1
DATE
P.E. STAMP BOX

JACOBS

Washington State Department of Transportation

SR 302
VICTOR CREEK
REMOVE FISH BARRIER

ALIGNMENT AND RIGHT OF WAY PLAN

PLAN REF NO
AL1

SHEET 17 OF 95 SHEETS

T.22N. R.1W. W.M.

TEMPORARY CONSTRUCTION EASEMENT

BEGIN SAWCUT
L 216+90.00 (14.25' LT.)

EX. PRIVATE DECORATIVE SIGN PROTECT IN PLACE

BEGIN SAWCUT
L 221+20.00 (13.91' LT.)

BEGIN SAWCUT
L 220+22.21 (13.15' LT.)

EX. S3-1 SIGN PROTECT IN PLACE

END SAWCUT
L 220+95.93 (13.18' LT.)

24" HDPE PIPE*

36" PRECAST CONCRETE PIPE*

L LINE

220

END SAWCUT
L 216+90.00 (14.75' RT.)

WOODEN FENCE*

WOODEN FENCE*

END TEMP FENCE

EX. PRIVATE DECORATIVE SIGN PROTECT IN PLACE

EX. PRIVATE DECORATIVE SIGN PROTECT IN PLACE

END SAWCUT
L 221+20.00 (15' RT.)

BEGIN PROJECT
SR 302 MP 4.10
L 216+90.00 P.O.T.

END PROJECT
SR 302 MP 4.20
L 221+20.00 P.O.T.

BEGIN TEMP FENCE

TEMPORARY CONSTRUCTION EASEMENT

LEGEND

- HIGHWAY RIGHT OF WAY BOUNDARY
- CG — CLEARING AND GRUBBING AREA
- EXISTING SIGN
- PRIMARY CONTROL POINT
- JUNCTION BOX
- TP — EXISTING TELEPHONE PEDESTAL
- P — EXISTING POWER POLE
- EXISTING GUY ANCHOR
- # — QUANTITY TAB NOTE
- EXISTING PIEZOMETER

0 15 30
SCALE IN FEET

NOTES:

1. CLEARING AND GRUBBING LIMITS ARE FROM EXISTING GRAVEL SHOULDER EDGE TO 5' BEYOND THE CUT/FILL LINES AS SHOWN IN THE PAVING PLANS.
2. SEE SHEET AL1 FOR TEMP FENCE LOCATIONS

* SEE SPECIAL PROVISIONS REMOVAL OF STRUCTURES AND OBSTRUCTIONS.

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TIME	9:46:46 AM				10	WASH	
DATE	2/2/2024				JOB NUMBER		
PLOTTED BY	LEMKEP				23C508		
DESIGNED BY	P. LEMKE				CONTRACT NO.		LOCATION NO.
ENTERED BY	M. SULLIVAN						XL6186
CHECKED BY	P. LEMKE						
PROJ. ENGR.	B. KRAMER						
REGIONAL ADM.	S. ROARK	REVISION	DATE	BY			

ANDREW D. BYRON — STATE OF WASHINGTON — 19937 — REGISTERED PROFESSIONAL ENGINEER
SEE SHEET CT1
DATE
P.E. STAMP BOX

JACOBS

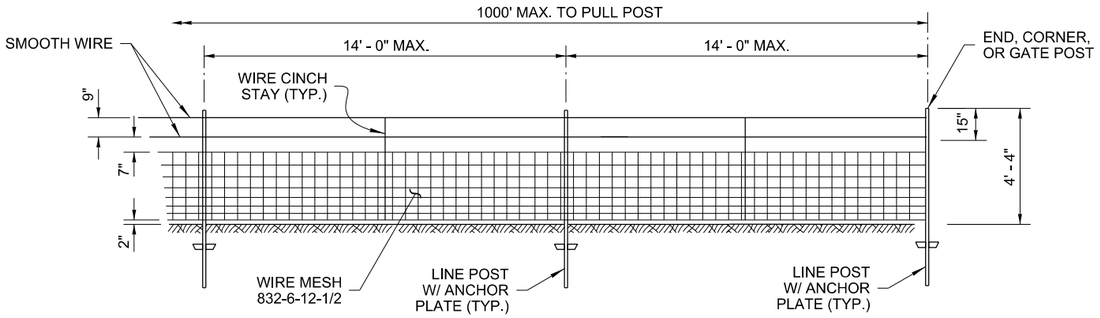
Washington State Department of Transportation

SR 302
VICTOR CREEK
REMOVE FISH BARRIER

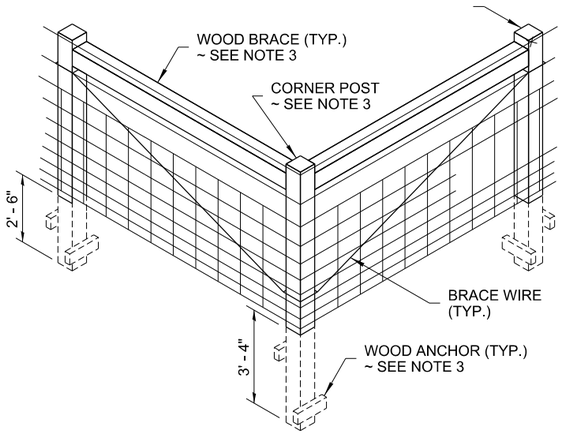
SITE PREPARATION PLAN

PLAN REF NO
SP1

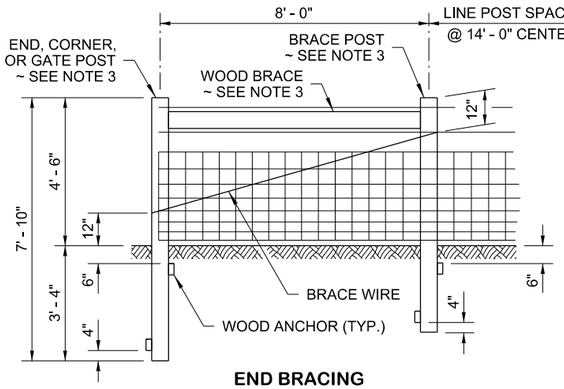
SHEET 18 OF 95 SHEETS



TEMPORARY FENCE
(STEEL POSTS SHOWN)



CORNER BRACING



END BRACING

NOTES

1. SEE SPECIAL PROVISIONS 8-12.
2. Attach the wire mesh to the posts using four fasteners. Three additional fasteners per post are required within and at the limits of sag conditions. Use additional fasteners on posts that mark the angle point of any sudden change in topography.
3. See **Standard Specification 9-16.2(1)** for wood post sizes. Wood anchors (for wood posts) shall be 2 × 4 lumber, 12" long minimum, and fastened with three 16d galvanized nails.

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TIME	10:05:40 AM				10	WASH	
DATE	2/2/2024				JOB NUMBER		
PLOTTED BY	LEMKEP				23C508		
DESIGNED BY	P. LEMKE				CONTRACT NO.		LOCATION NO.
ENTERED BY	P. LEMKE						XL6186
CHECKED BY	P. COOPER						
PROJ. ENGR.	B. KRAMER						
REGIONAL ADM.	S. ROARK	REVISION	DATE	BY			

ANDREW D. BARRON — STATE OF WASHINGTON — 19837 — REGISTERED PROFESSIONAL ENGINEER
SEE SHEET CT1
DATE
P.E. STAMP BOX

JACOBS

Washington State
Department of Transportation

SR 302
VICTOR CREEK
REMOVE FISH BARRIER

DETAIL SHEET

PLAN REF NO
DT1

SHEET
19
OF
95
SHEETS

ROADWAY SECTION A | ROADWAY SECTION B | ROADWAY SECTION C | ROADWAY SECTION D | ROADWAY SECTION E | ROADWAY SECTION F | ROADWAY SECTION G

L 216+90.00 MATCH EXST RT. BEGIN TRANSITION

L 217+65.00 END TRANSITION RT. BEGIN FULL SUPER

L 220+40.00 END FULL SUPER RT. BEGIN TRANSITION TO EXISTING

L 221+20.00 MATCH EXST RT./LT.

1.60% RT. | 4% RT. | 4% RT. | 0.25% RT.

CENTERLINE PROFILE GRADE AND PIVOT POINT — L LINE

-4% LT. | -4% LT. | -4% LT. | 3.25% LT.

L 216+90.00 MATCH EXST LT

L 221+00.00 BEGIN TRANSITION TO EXISTING LT.

L LINE

50 | 40 | 30

FINISHED PROFILE GRADE

BEGIN PROJECT MATCH EXST L 216+90.00 P.O.T. ELEV 33.50'

L 216+92.50 BVC EL 33.50'

L 217+50.00 VPI EL 33.47'

L 218+07.50 PVRC EL 34.48'

L 218+35.00 VPI EL 34.96'

L 218+62.50 EVC EL 35.10'

L 219+30.00 BVC EL 35.44'

L 219+55.00 VPI EL 35.56'

L 219+80.00 EVC EL 35.41'

L 219+85.00 BVC EL 35.38'

L 220+45.00 VPI EL 35.00'

L 221+05.00 EVC EL 35.74'

END PROJECT MATCH EXST L 221+20.00 P.O.T. ELEV 35.93'

-0.04% | 115' VC | 1.75% | 55' VC | 0.50% | 50' VC | -0.63% | 120' VC | 1.24%

EXISTING GROUND

CLEARING AND GRUBBING 0.31 ACRE

ROADWAY EXCAVATION INCL. HAUL 740 CY*

EMBANKMENT COMPACTION 350 CY*

COMMON BORROW INCL. HAUL 565 CY*

SEEDING FERTILIZING AND MULCHING 0.13 ACRE

* INCLUDED IN BID ITEM "EARTHWORK SITE", L.S.

DATUM (NAVD) 88

217+00 | 218+00 | 219+00 | 220+00 | 221+00 | 222+00

pw:\\projectstore.wsdot.wa.gov:WSDOT\Documents_HQ\Fish Passage\ORproj\0001Y125541Task Order AQ\700PROJTEC\702 Roadway\Sheets\XL6186_RP_001.dgn

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TIME	10:23:02 AM
DATE	2/2/2024
PLOTTED BY	LEMKEP
DESIGNED BY	P. LEMKE
ENTERED BY	P. LEMKE
CHECKED BY	P. COOPER
PROJ. ENGR.	B. KRAMER
REGIONAL ADM.	S. ROARK

REVISION	DATE	BY

REGION NO. 10 | STATE WASH

JOB NUMBER 23C508

CONTRACT NO.

FED.AID PROJ.NO.

LOCATION NO. XL6186

ANDREW D. BYARD — STATE OF WASHINGTON — 20833 — REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1

DATE

P.E. STAMP BOX

JACOBS

Washington State Department of Transportation

SR 302
VICTOR CREEK
REMOVE FISH BARRIER

ROADWAY PROFILE

PLAN REF NO RP1

SHEET 20 OF 95 SHEETS

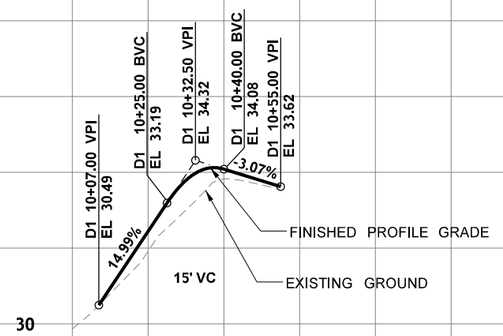
ROADWAY SECTION D1

2% LT.

CENTERLINE PROFILE GRADE AND PIVOT POINT

-2% RT.

DRIVEWAY D1



CLEARING AND GRUBBING
0 ACRE

ROADWAY EXCAVATION INCL. HAUL
10 CY*

EMBANKMENT COMPACTION
10 CY*

COMMON BORROW INCL. HAUL
10 CY*

SEEDING FERTILIZING AND MULCHING
0 ACRE

DATUM
(NAVD) 88

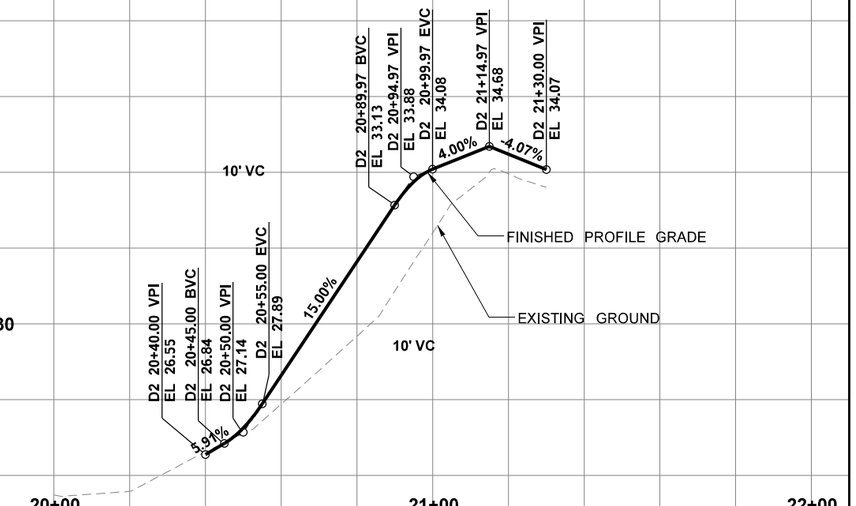
ROADWAY SECTION D2

2% RT.

CENTERLINE PROFILE GRADE AND PIVOT POINT

-2% LT.

DRIVEWAY D2



CLEARING AND GRUBBING
0.02 ACRE

ROADWAY EXCAVATION INCL. HAUL
30 CY*

EMBANKMENT COMPACTION
90 CY*

COMMON BORROW INCL. HAUL
90 CY*

SEEDING FERTILIZING AND MULCHING
0 ACRE

* INCLUDED IN BID ITEM "EARTHWORK SITE", L.S.

FILE NAME	c:\users\lemkep\pw_wsdot\d0545011\XL6186_RP_002.dgn				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
TIME	10:25:08 AM						
DATE	2/2/2024				JOB NUMBER 23C508		
PLOTTED BY	LEMKEP						
DESIGNED BY	P. LEMKE				CONTRACT NO.		LOCATION NO. XL6186
ENTERED BY	P. LEMKE						
CHECKED BY	P. COOPER						
PROJ. ENGR.	B. KRAMER						
REGIONAL ADM.	S. ROARK	REVISION	DATE	BY			

ANDREW D. BYRD STATE OF WASHINGTON 39833 REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1 DATE

P.E. STAMP BOX

JACOBS

Washington State Department of Transportation

SR 302
VICTOR CREEK
REMOVE FISH BARRIER

ROADWAY PROFILE

PLAN REF NO RP2

SHEET 21 OF 95 SHEETS

pw:\\projectstore.wsdot.wa.gov:WSDOT\Documents_HQ\Fish Passage\ORproj\0001\Y125541\Task Order AQ\700PROJTEC\702 Roadway\Sheets\XL6186_RP_002.dgn

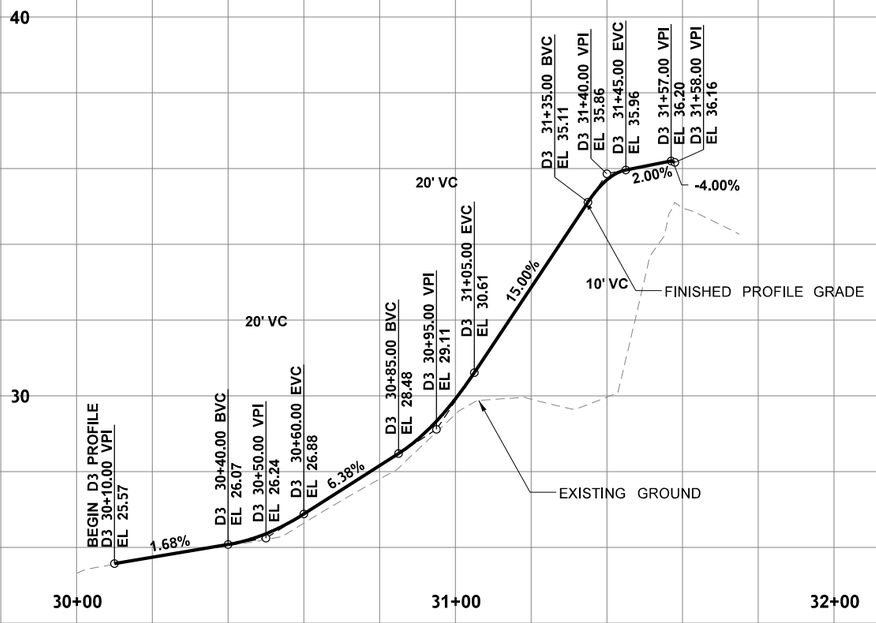
ROADWAY
SECTION D3

2% LT

CENTERLINE PROFILE GRADE AND PIVOT POINT

-2% RT

DRIVEWAY D3



DATUM
(NAVD) 88

CLEARING AND GRUBBING
0.13 ACRE

ROADWAY EXCAVATION INCL. HAUL
30 CY

EMBANKMENT COMPACTION
180 CY*

COMMON BORROW INCL. HAUL
180 CY*

SEEDING FERTILIZING AND MULCHING
0 ACRE*

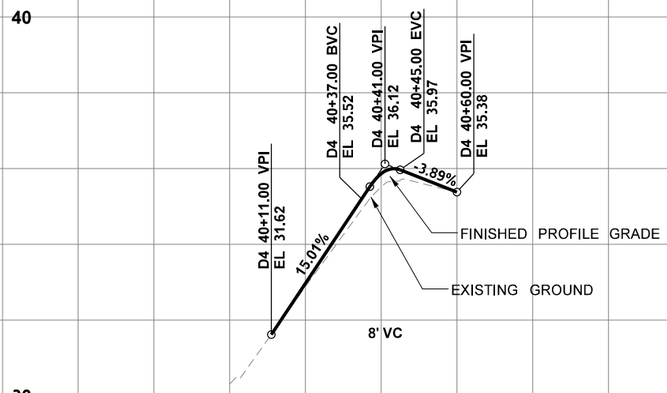
ROADWAY
SECTION D4

2% RT.

CENTERLINE PROFILE GRADE AND PIVOT POINT

-2% LT.

DRIVEWAY D4



CLEARING AND GRUBBING
0 ACRE

ROADWAY EXCAVATION INCL. HAUL
10 CY*

EMBANKMENT COMPACTION
10 CY*

COMMON BORROW INCL. HAUL
10 CY*

SEEDING FERTILIZING AND MULCHING
0 ACRE

* INCLUDED IN BID ITEM "EARTHWORK SITE", L.S.

FILE NAME	c:\users\lemkep\pw_wsdot\d0545011\XL6186_RP_003.dgn			REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
TIME	10:27:17 AM			JOB NUMBER 23C508		
DATE	2/2/2024			CONTRACT NO.		LOCATION NO. XL6186
PLOTTED BY	LEMKEP					
DESIGNED BY	P. LEMKE					
ENTERED BY	P. LEMKE					
CHECKED BY	P. COOPER					
PROJ. ENGR.	B. KRAMER					
REGIONAL ADM.	S. ROARK	REVISION	DATE	BY		

ANDREW D. BYRD — STATE OF WASHINGTON — 19837 — REGISTERED PROFESSIONAL ENGINEER
SEE SHEET CT1
DATE
P.E. STAMP BOX

JACOBS

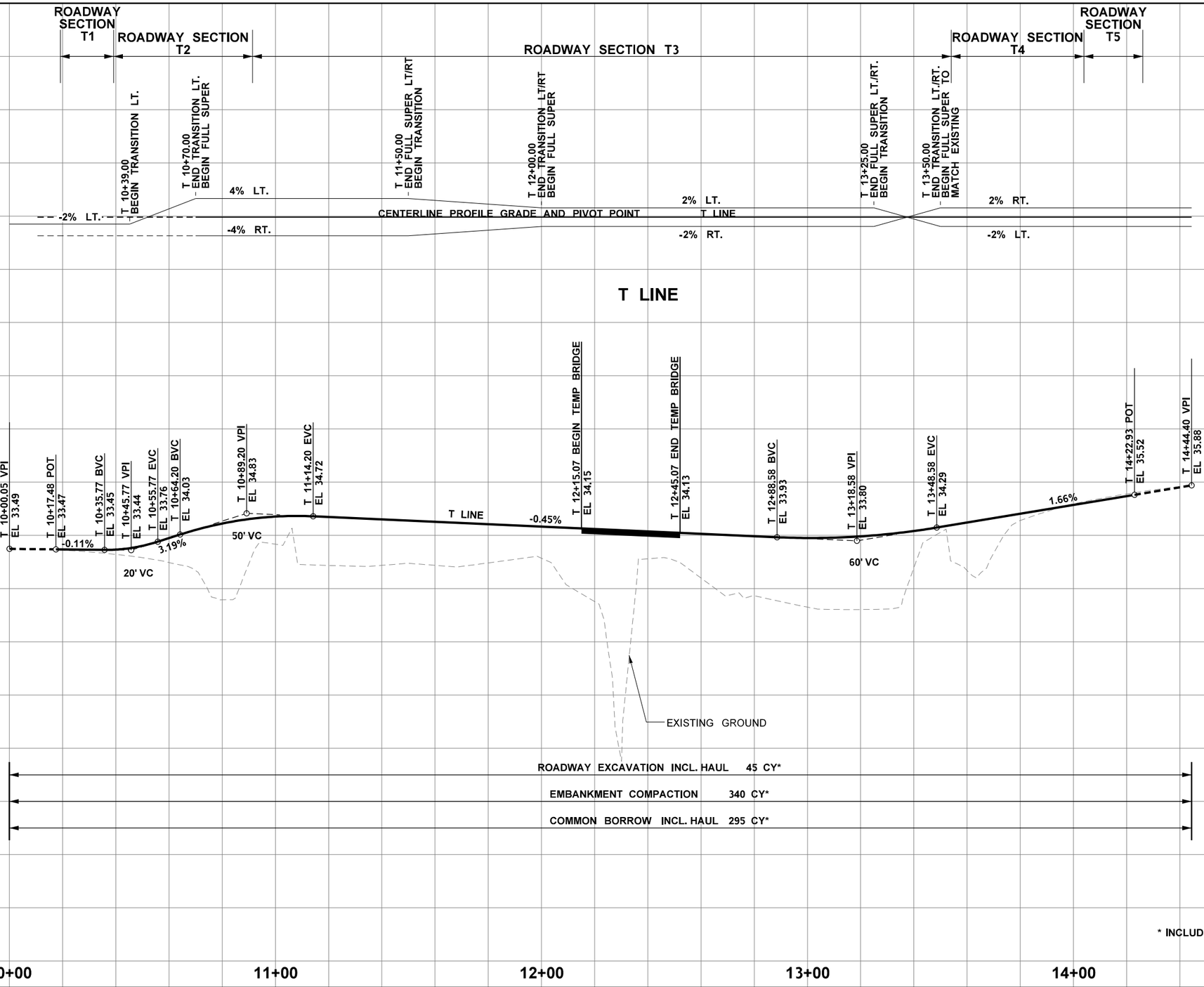
Washington State Department of Transportation

SR 302
VICTOR CREEK
REMOVE FISH BARRIER

ROADWAY PROFILE

PLAN REF NO RP3

SHEET 22 OF 95 SHEETS



pw:\\projectstore.wsdot.wa.gov:WSDOT\Documents_HQ\Fish Passage\ORproj\000\Y125541Task Order AQ\700PROJTEC\702 Roadway\Sheets\XL6186_RP_004.dgn

FILE NAME	c:\users\lemkep\pw_wsdot\d0545011\XL6186_RP_004.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
TIME	10:29:31 AM				10	WASH	
DATE	2/2/2024				JOB NUMBER		
PLOTTED BY	LEMKEP				23C508		
DESIGNED BY	P. LEMKE				CONTRACT NO.		LOCATION NO.
ENTERED BY	P. LEMKE						XL6186
CHECKED BY	P. COOPER						
PROJ. ENGR.	B. KRAMER						
REGIONAL ADM.	S. ROARK	REVISION	DATE	BY			

ANDREW D. BARRETT — STATE OF WASHINGTON — 19837 — REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1 DATE

P.E. STAMP BOX

JACOBS

Washington State Department of Transportation

SR 302
VICTOR CREEK
REMOVE FISH BARRIER

TEMPORARY ROADWAY PROFILE

PLAN REF NO RP4

SHEET 23 OF 95 SHEETS

TESC QUANTITY TABULATION

NOTE:
THE FIRST NUMBER OF THE "CODE" BELOW REFERS TO THE SHEET NO. OR THE SHEET REFERENCE NO. SHOWING THE CONSTRUCTION FEATURE.

THE SECOND NUMBER REFERS TO THE CONSTRUCTION FEATURE FOUND ON THAT SHEET.

CODE	LOCATION ↘ \ UNIT OF MEASURE ➢	SILT FENCE L.F.	HIGH VISIBILITY SILT FENCE L.F.	EROSION CONTROL BLANKET S.Y.	CHECK DAM L.F.	SEE GENERAL NOTES
EC1	L 216+89.56 (22.93' LT) TO 221+18.43 (27.49' LT)		483			5
EC1	L 216+89.04 (17.94' RT) TO 217+29.94 (47.50' RT)	64				1
EC1	L 217+41.64 (46.81' RT) TO 217+77.86 (92.48' RT)	121				1
EC1	L 217+93.10 (89.40' RT) TO L 218+65.23 (103.27' RT)	197				1
EC1	L 218+85.30 (64.78' RT) TO 219+15.33 (164.31' RT)	125				1
EC1	L 219+44.00 (159.19' RT) TO 220+59.24 (46.61' RT)	250				1
EC1	L 220+74.63 (45.54' RT) TO 221+15.87 (16.96' RT)	66				1
EC1	L 216+90.31 (14.98' LT) TO 217+33.16 (24.00' LT)			25		4
EC1	L 217+09.32 (23.97' LT) TO 217+86.32 (43.04' LT)			60		3
EC1	L 217+94.97 (16.91' LT) TO 218+99.18 (21.42' LT)			83		4
EC1	L 219+05.43 (26.00' LT) TO 219+94.21 (17.25' LT)			67		4
EC1	L 220+10.80 (44.99' LT) TO 221+18.11 (24.98' LT)			59		3
EC1	L 220+28.19 (36.54' LT) TO 221+19.62 (16.85' LT)			82		4
EC1	L 221+21.02 (12.02' LT) TO 221+22.02 (22.02' LT)				10	2
EC1	L 219+24.02 (18.83' LT) TO 219+25.02 (28.83' LT)				10	2
EC1	L 218+78.80 (20.35' LT) TO 218+79.80 (30.35' LT)				10	2
EC1	L 216+87.93 (11.82' LT) TO 216+88.93 (21.82' LT)				10	2
EC2	L 217+10.47 (16.00' LT) TO 218+98.54 (29.71' LT)			150		4
EC2	L 219+05.34 (33.37' LT) TO 220+48.89 (28.09' LT)			115		4
EC2	L 217+76.71 (19.47' LT) TO 217+77.71 (29.47' LT)				10	2
EC2	L 218+38.34 (27.20' LT) TO 218+39.34 (37.20' LT)				10	2
EC2	L 219+32.46 (23.50' LT) TO 219+33.46 (33.50' LT)				10	2
EC2	L 219+56.03 (23.46' LT) TO 219+57.03 (33.46' LT)				10	2
EC2	L 219+85.40 (24.11' LT) TO 219+86.40 (34.11' LT)				10	2
EC2	L 220+08.33 (25.17' LT) TO 220+09.33 (35.17' LT)				10	2
EC2	L 220+27.37 (25.97' LT) TO 220+28.37 (35.97' LT)				10	2
EC2	L 220+50.09 (25.29' LT) TO 220+51.09 (35.29' LT)				10	2
EC2	L 220+89.75 (16.42' LT) TO 220+90.75 (26.42' LT)				10	2
	SHEET TOTAL	823	483	641	130	
	PROJECT TOTAL	823	483	641	130	

GENERAL NOTES:

1. SILT FENCE SHALL BE PER STANDARD PLAN I-30.15-02.
2. BIODEGRADABLE CHECK DAMS WITHIN DITCHES SHALL BE PER STANDARD PLAN I-50.20-01.
3. EROSION CONTROL BLANKET PLACEMENT FOR SLOPES SHALL BE PER STANDARD PLAN I-60.10-01.
4. EROSION CONTROL BLANKET PLACEMENT FOR DITCHES SHALL BE PER PLAN I-60.20-01.
5. HIGH VISIBILITY SILT FENCE SHALL BE PER STANDARD PLAN I-30.17-01.

					REGION NO.	STATE	FED. AID PROJ. NO.
TIME	3:52 PM				10	WASH	
DATE	1/31/2024						
PLOTTED BY	rhw						
DESIGNED BY	C. BOOTH				JOB NUMBER		
ENTERED BY	R. WILCOX				23C508		
CHECKED BY	G. LAIRD				CONTRACT NO.		LOCATION NO.
PROJ. ENGR.	B. KRAMER						XL6186
REGION ADM.	S. ROARK	REVISION	DATE	BY			

SEE SHEET CT1
DATE
P.E. STAMP BOX

JACOBS

Washington State Department of Transportation

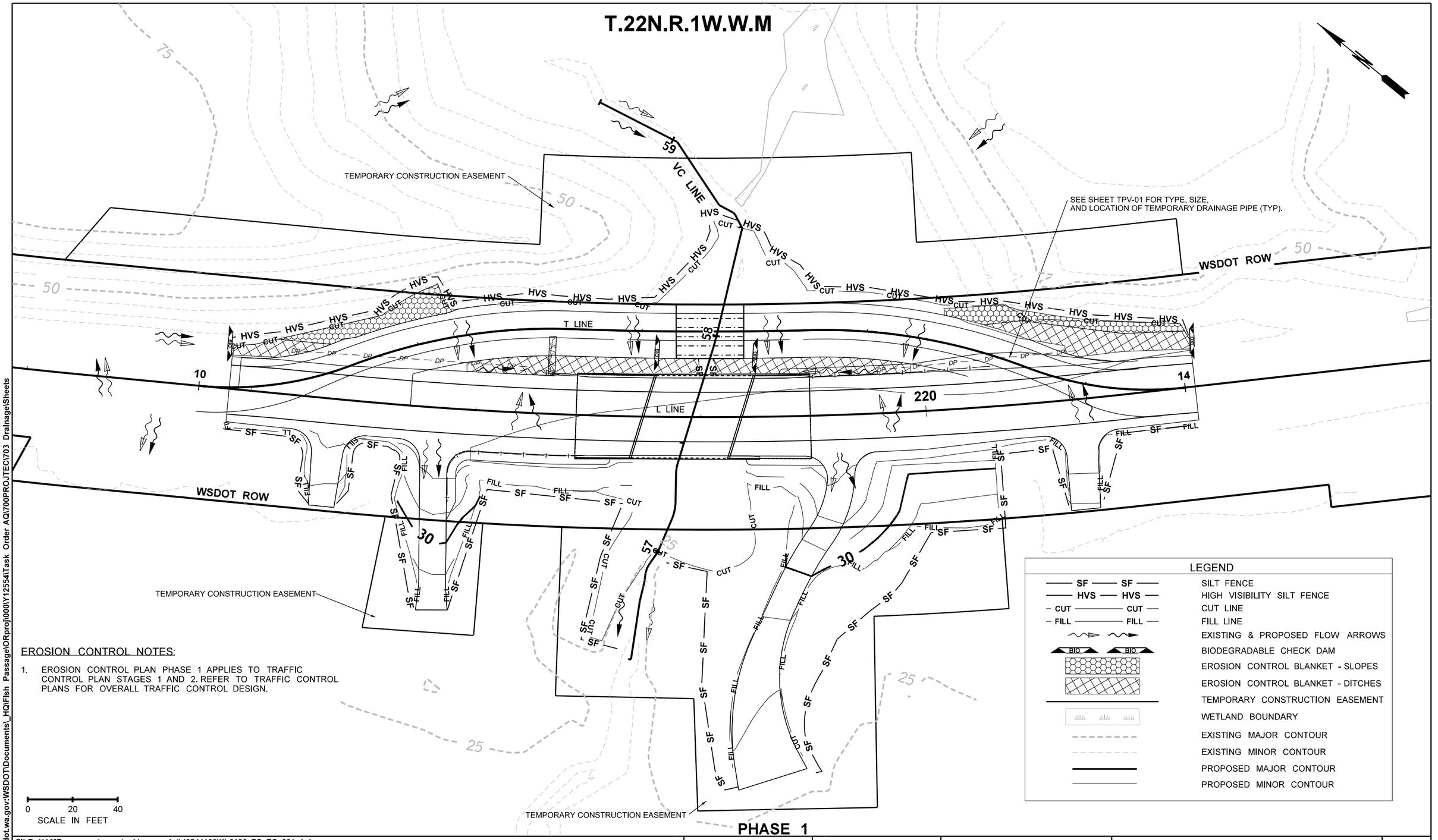
SR 302
VICTOR CREEK
REMOVE FISH BARRIER

TESC QUANTITY TABULATION

QTAB
EC

SHEET 24 OF 95 SHEETS

T.22N.R.1W.W.M



EROSION CONTROL NOTES:

1. EROSION CONTROL PLAN PHASE 1 APPLIES TO TRAFFIC CONTROL PLAN STAGES 1 AND 2. REFER TO TRAFFIC CONTROL PLANS FOR OVERALL TRAFFIC CONTROL DESIGN.

0 20 40
SCALE IN FEET

LEGEND

SF — SF	SILT FENCE
HVS — HVS	HIGH VISIBILITY SILT FENCE
CUT — CUT	CUT LINE
FILL — FILL	FILL LINE
	EXISTING & PROPOSED FLOW ARROWS
BIO BIO	BIODEGRADABLE CHECK DAM
	EROSION CONTROL BLANKET - SLOPES
	EROSION CONTROL BLANKET - DITCHES
	TEMPORARY CONSTRUCTION EASEMENT
	WETLAND BOUNDARY
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR

PHASE 1

FILE NAME	c:\users\cgb\pw_wsdot\d0544160\XL6186_PS_EC_001_1.dgn				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
TIME	10:32:07 AM						
DATE	1/30/2024				JOB NUMBER 23C508		
PLOTTED BY	Cgb						
DESIGNED BY	C. BOOTH				CONTRACT NO.	LOCATION NO. XL6186	
ENTERED BY	K. TOMLINSON						
CHECKED BY	G. LAIRD						
PROJ. ENGR.	B. KRAMER						
REGIONAL ADM.	S. ROARK	REVISION	DATE	BY			

SEE SHEET CT1 DATE
P.E. STAMP BOX

JACOBS

Washington State Department of Transportation

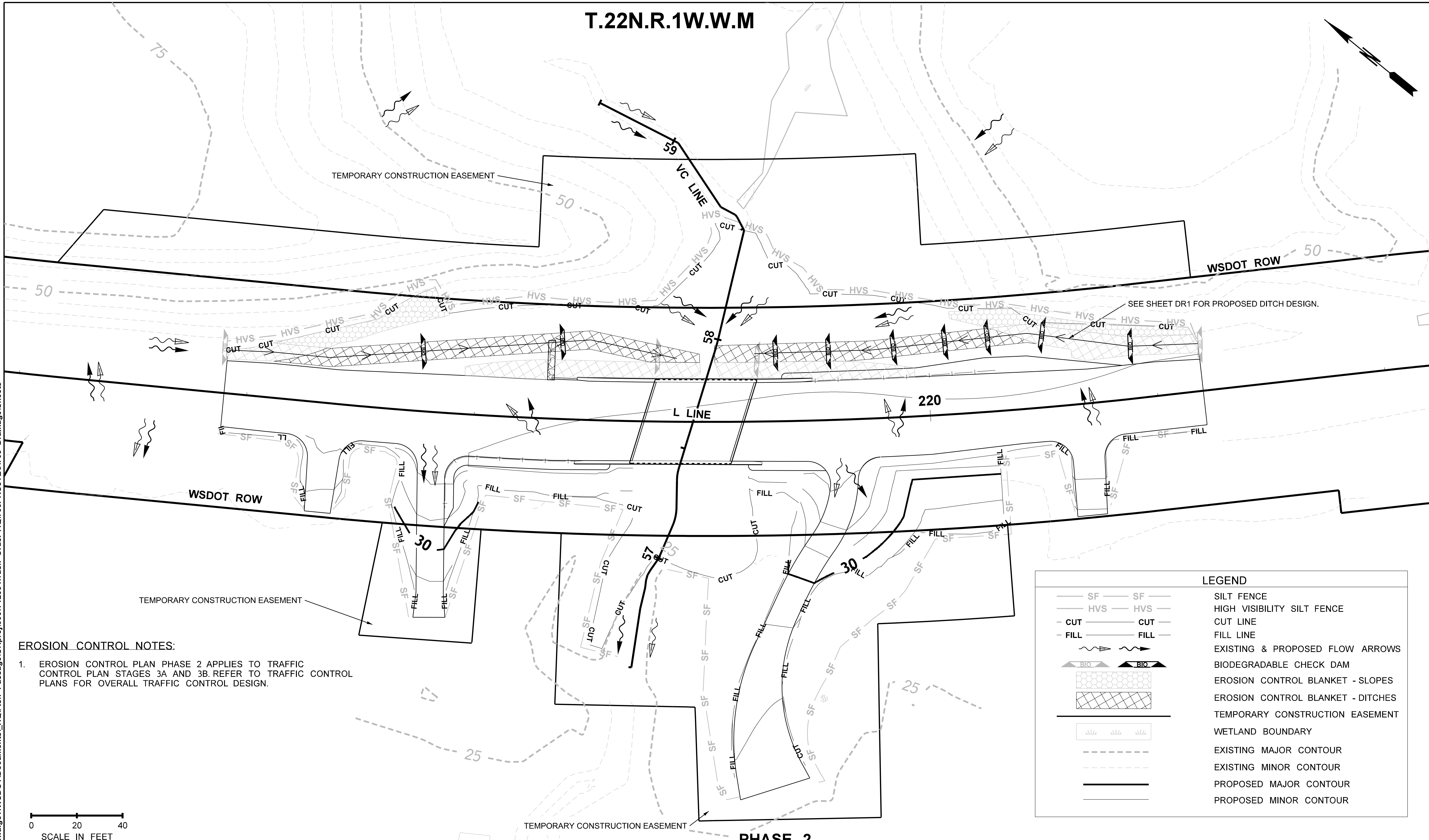
SR 302
VICTOR CREEK
REMOVE FISH BARRIER

TESC PLAN

PLAN REF NO
EC1

SHEET 25 OF 95 SHEETS

pw:\\projectstore.wsdot.wa.gov:WSDOT\Documents_HQ\Fish Passage\ORproj\000\Y12554\Task Order AQ\700PROJTEC\703 Drainage\Sheets



EROSION CONTROL NOTES:

1. EROSION CONTROL PLAN PHASE 2 APPLIES TO TRAFFIC CONTROL PLAN STAGES 3A AND 3B. REFER TO TRAFFIC CONTROL PLANS FOR OVERALL TRAFFIC CONTROL DESIGN.

LEGEND

Symbol	Description
— SF — SF —	SILT FENCE
— HVS — HVS —	HIGH VISIBILITY SILT FENCE
— CUT — CUT —	CUT LINE
— FILL — FILL —	FILL LINE
	EXISTING & PROPOSED FLOW ARROWS
BIO BIO	BIODEGRADABLE CHECK DAM
	EROSION CONTROL BLANKET - SLOPES
	EROSION CONTROL BLANKET - DITCHES
	TEMPORARY CONSTRUCTION EASEMENT
	WETLAND BOUNDARY
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR

PHASE 2

FILE NAME	c:\users\cgb\pw_wsdot\d0544160\XL6186_PS_EC_002.dgn
TIME	10:33:22 AM
DATE	1/30/2024
PLOTTED BY	Cgb
DESIGNED BY	C. BOOTH
ENTERED BY	K. TOMLINSON
CHECKED BY	G. LAIRD
PROJ. ENGR.	B. KRAMER
REGIONAL ADM.	S. ROARK

REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER 23C508		
CONTRACT NO.		LOCATION NO. XL6186

SEE SHEET CT1
DATE
P.E. STAMP BOX

JACOBS

Washington State Department of Transportation

SR 302
VICTOR CREEK
REMOVE FISH BARRIER

TESC PLAN

PLAN REF NO EC2

SHEET 26 OF 95 SHEETS

pw:\\projectstore.wsdot.wa.gov:WSDOT\Documents_HQ\Fish Passage\ORproj\000\Y12554\Task Order AQ\700PROJTEC\703 Drainage\Sheets

DRAINAGE QUANTITY TABULATION

NOTE:
THE FIRST NUMBER OF THE "CODE DESIGNATION" BELOW REFERS TO THE SHEET NO. OR THE SHEET REFERENCE NO. SHOWING THE DRAINAGE FEATURE.

THE SECOND NUMBER REFERS TO THE DRAINAGE FEATURE FOUND ON THAT SHEET.

CODE	LOCATION → \ UNIT OF MEASURE →	PLAIN CONC. STORM SEWER PIPE 15 IN. DIAM. L.F.	CL. V REINF. CONC. STORM SEWER PIPE 12 IN. DIAM L.F.	CONSTRUCTION GEOTEXTILE FOR PERMANENT EROSION CONTROL S.Y.	QUARRY SPALLS C.Y.											SEE GENERAL NOTES
TPV1-5	T 10+41.21 (14.38' LT) TO 10+50.56 (16.93' RT)	110														
TPV1-6	T 10+39.17 (9.68' LT) TO 10+50.56 (16.93' RT)		93													
DR1-1	L 218+31.47 (17.00' RT) TO 218+34.47 (17.00' RT)			6	2											1
	SHEET TOTAL	110	93	6	2											
	PROJECT TOTAL	110	93	6	2											

GENERAL NOTES:

1. CONSTRUCTION GEOTEXTILE SHALL BE HIGH SURVIVABILITY CLASS A.

TIME	3:53 PM
DATE	1/31/2024
PLOTTED BY	rhw
DESIGNED BY	C. BOOTH
ENTERED BY	R. WILCOX
CHECKED BY	G. LAIRD
PROJ. ENGR.	B. KRAMER
REGION ADM.	S. ROARK

REVISION	DATE	BY

REGION NO.	STATE	FED. AID PROJ. NO.
10	WASH	
JOB NUMBER		
23C508		
CONTRACT NO.		**LOCATION NO.**
		XL6186

GREGORY S. LAIRD — STATE OF WASHINGTON — 25756 — REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1
DATE
P.E. STAMP BOX

JACOBS

Washington State Department of Transportation

SR 302
VICTOR CREEK
REMOVE FISH BARRIER

DRAINAGE QUANTITY TABULATION

QTAB
DR

SHEET 27 OF 95 SHEETS

T.22N.R.1W.W.M

LEGEND

- DITCH BOTTOM
- TEMPORARY CONSTRUCTION EASEMENT
- EXISTING DITCH BOTTOM
- (1) STRUCTURE NOTE CODE
- WETLAND BOUNDARY

59 VC LINE

DN 0+10.00 P.O.B. =
L 216+90.00 (18.97' LT)

DN 0+30.03 P.I. =
L 217+10.00 (20' LT)

DN 0+55.03 P.I. =
L 217+35.00 (20' LT)

DS 0+17.77 P.O.T. =
L 219+23.11 (29.80' LT)

DN 2+07.78 P.O.T.=
L 218+88.60 (27.70' LT)

DS 1+37.51 P.I. =
L 220+45.00 (33.00' LT)

DS 1+82.88 P.I. =
L 220+90.00 (23' LT)

DS 2+12.90 P.O.E. =
L 221+20.00 (20.83' LT)

WSDOT ROW

DN LINE

DS LINE

58

DN 1+69.19 P.I. =
L 218+50.00 (35' LT)

L LINE

220

WSDOT ROW

57

DRAINAGE NOTES:

1. SEE SHEET DP1 FOR DRAINAGE PROFILES.
2. SEE SHEET DD1 FOR QUARRY SPALL EROSION PROTECTION DETAIL.

0 20 40
SCALE IN FEET

pw:\\HQOLYMAPPPW03P.WSDOT.LOC:WSDOT\Documents_HQ\Fish Passage\ORproj\0001Y12554\Task Order AQ\700PROJTEC\703 DraInage\Sheets\XL6186_PS_DR_001.dgn

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TIME	10:27:54 AM				10	WASH	
DATE	1/30/2024				JOB NUMBER		
PLOTTED BY	Cgb				23C508		
DESIGNED BY	C. BOOTH				CONTRACT NO.		LOCATION NO.
ENTERED BY	K. TOMLINSON						XL6186
CHECKED BY	G. LAIRD						
PROJ. ENGR.	B. KRAMER						
REGIONAL ADM.	S. ROARK	REVISION	DATE	BY			

GREGORY S. LAIRD — STATE OF WASHINGTON — 35750 — REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1
DATE
P.E. STAMP BOX

JACOBS

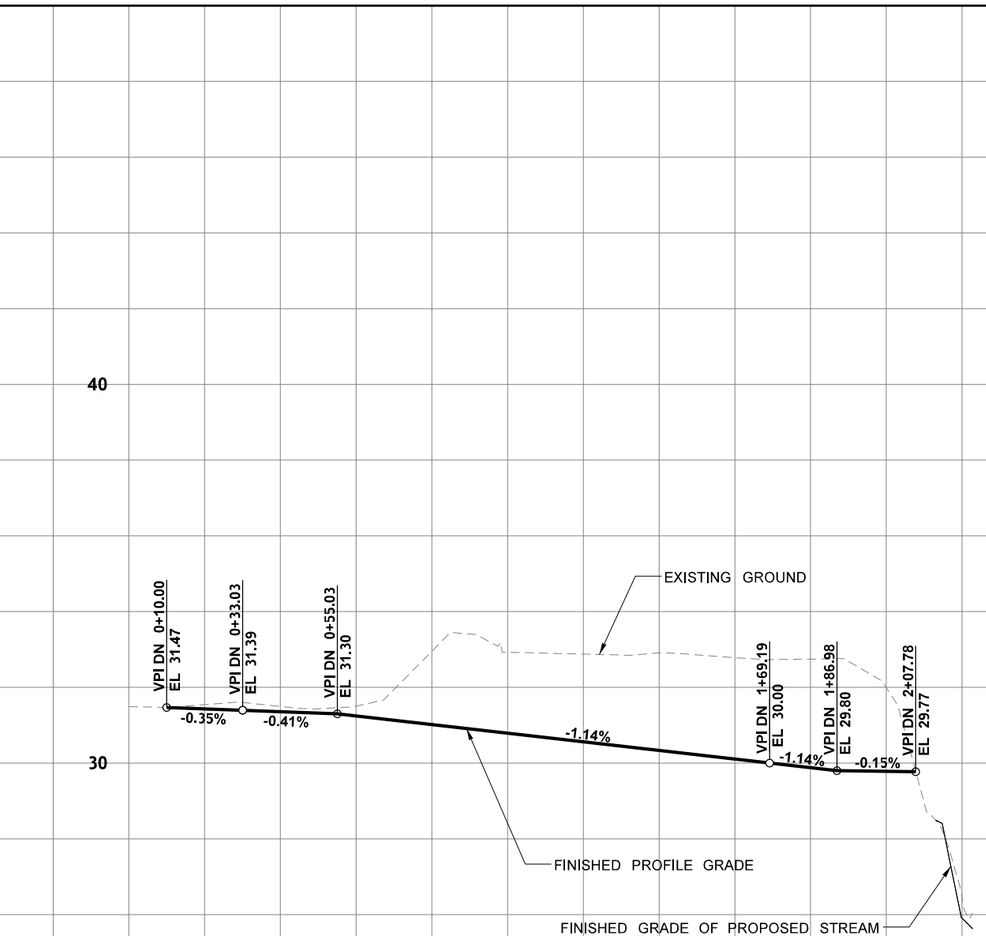
Washington State Department of Transportation

SR 302
VICTOR CREEK
REMOVE FISH BARRIER

DRAINAGE PLAN

PLAN REF NO
DR1

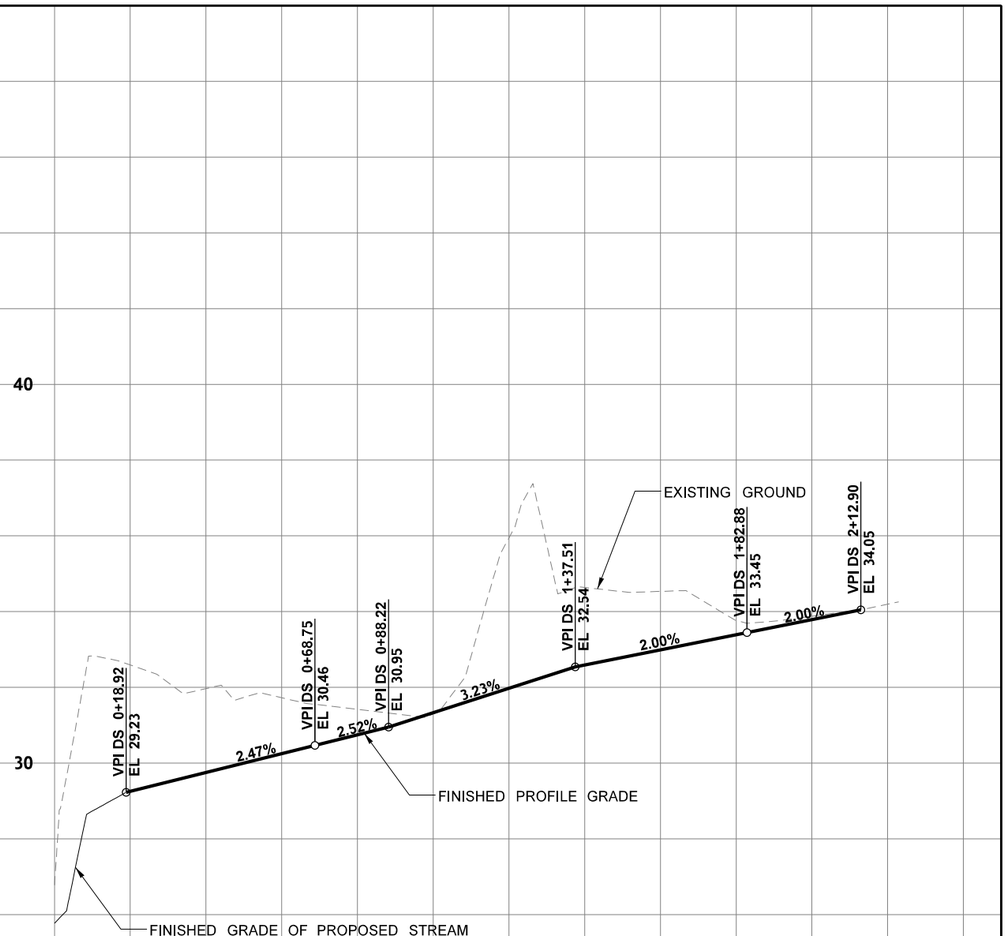
SHEET 28 OF 95 SHEETS



DATUM

(NAVD) 88

DN LINE



DS LINE

NOTES:

1. QUANTITIES ARE BASED OFF OF THE L LINE AND SHOWN ON SHEET RP1.

FILE NAME	c:\users\cgb\pw_wsdot\d0544160\XL6186_DP_001.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
TIME	10:37:55 AM				10	WASH	
DATE	1/30/2024				JOB NUMBER		
PLOTTED BY	Cgb				23C508		
DESIGNED BY	C. BOOTH				CONTRACT NO.		LOCATION NO.
ENTERED BY	A. SHANMUGHAM						XL6186
CHECKED BY	G. LAIRD						
PROJ. ENGR.	B. KRAMER						
REGIONAL ADM.	S. ROARK	REVISION	DATE	BY			

GREGORY S. LAIRD
STATE OF WASHINGTON
25758
REGISTERED
PROFESSIONAL ENGINEER

SEE SHEET CT1 DATE

P.E. STAMP BOX

JACOBS

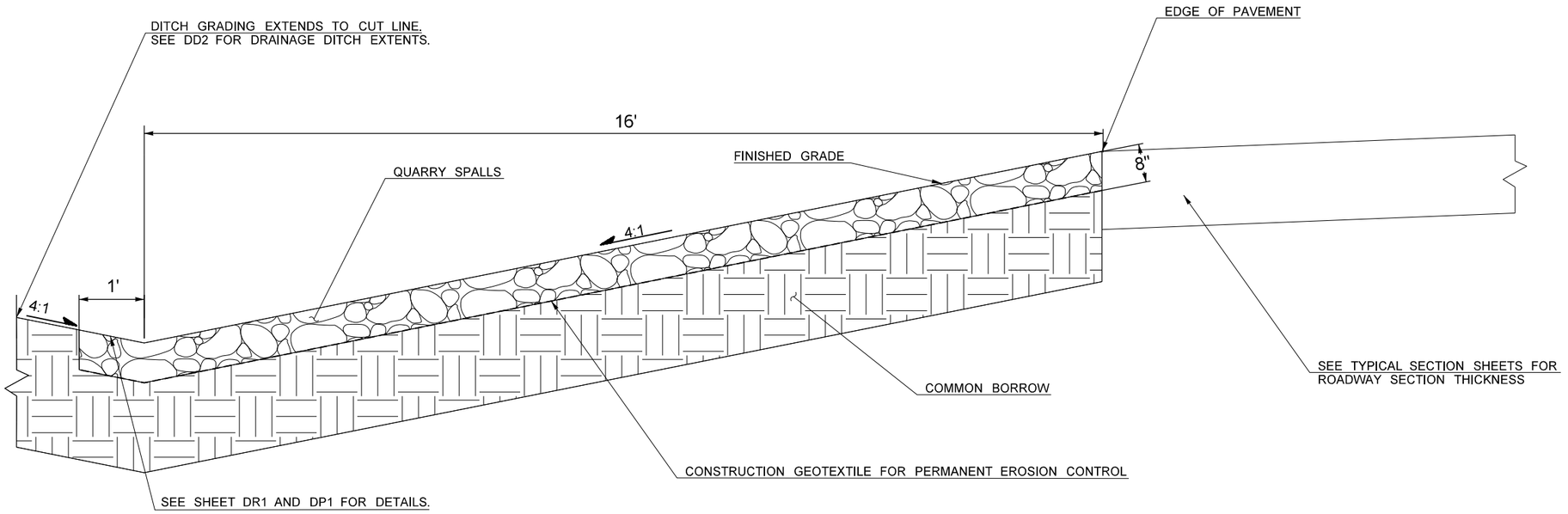
Washington State Department of Transportation

SR 302
VICTOR CREEK
REMOVE FISH BARRIER

DRAINAGE PROFILE

PLAN REF NO
DP1

SHEET 29 OF 95 SHEETS



QUARRY SPALL EROSION PROTECTION

N.T.S

L 218+31.74 (17.00' RT) TO L 218+34.74 (17.00' RT)

NOTES

1. QUARRY SPALL EROSION PROTECTION SHALL BE 3 FEET WIDE.

2. EXTRUDED CURB NOT SHOWN FOR CLARITY. SEE SHEET QTPV1 AND PV1 FOR DETAILS.

FILE NAME	c:\users\cgb\pw_wsdot\d0544160\XL6186_DE_DD_001.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
TIME	10:40:20 AM				10	WASH	
DATE	1/30/2024				JOB NUMBER		
PLOTTED BY	Cgb				23C508		
DESIGNED BY	C. BOOTH				CONTRACT NO.		LOCATION NO.
ENTERED BY	K. TOMLINSON						XL6186
CHECKED BY	G. LAIRD						
PROJ. ENGR.	B. KRAMER						
REGIONAL ADM.	S. ROARK	REVISION	DATE	BY			

GREGORY S. LAIRD — STATE OF WASHINGTON — 35756 — REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1 DATE

P.E. STAMP BOX

JACOBS

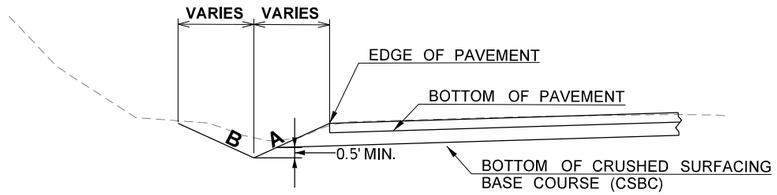
Washington State Department of Transportation

SR 302
VICTOR CREEK
REMOVE FISH BARRIER

DRAINAGE DETAIL

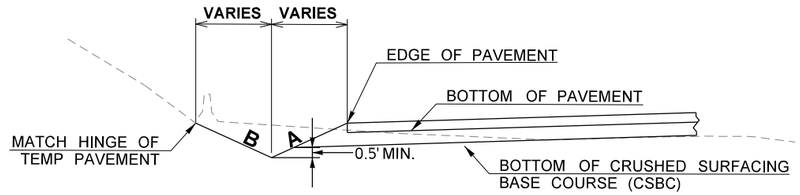
PLAN REF NO
DD1

SHEET 30 OF 95 SHEETS



DN - L 216+90.00 TO L 217+90.00
DS - L 220+10.00 TO L 221+20.00

DITCH SECTION
NOT TO SCALE



DN - L 217+90.00 TO L 218+88.60
DS - L 219+23.11 TO L 220+10.00

DITCH SECTION
NOT TO SCALE

DN SLOPE TRANSITION			
		STATION	SLOPE
A	FORESLOPE	L 216+90.00 TO L 217+35.00	MATCH EXST TO 3:1
		L 217+35.00 TO L 217+90.00	3:1 TO 4:1
		L 217+90.00 TO L 218+60.00	4:1
		L 218+60.00 TO L 218+88.60	4:1 TO 3:1
B	BACKSLOPE	L 216+90.00 TO L 217+00.00	MATCH EXST TO 3:1
		L 217+00.00 TO L 217+60.00	3:1 TO 2:1
		L 217+60.00 TO L 218+88.60	2:1 TO 4:1

DS SLOPE TRANSITION			
		STATION	SLOPE
A	FORESLOPE	L 219+40.00 TO L 220+10.00	2:1 TO 3:1
		L 220+10.00 TO L 220+30.00	3:1 TO 5:1
		L 220+30.00 TO L 221+20.00	5:1
B	BACKSLOPE	L 219+40.00 TO L 220+10.00	20:1
		L 220+10.00 TO L 220+50.00	20:1 TO 3:1
		L 220+50.00 TO L 221+20.00	3:1 TO 4:1

DITCH TYPICAL SECTIONS

FILE NAME	c:\users\cgb\pw_wsdot\d0544160\XL6186_DE_DD_002.dgn
TIME	10:41:22 AM
DATE	1/30/2024
PLOTTED BY	Cgb
DESIGNED BY	C. BOOTH
ENTERED BY	K. TOMLINSON
CHECKED BY	G. LAIRD
PROJ. ENGR.	B. KRAMER
REGIONAL ADM.	S. ROARK

REVISION	DATE	BY

REGION NO.	STATE
10	WASH

JOB NUMBER 23C508

CONTRACT NO.

FED.AID PROJ.NO.

LOCATION NO. XL6186

GREGORY S. LAIRD — STATE OF WASHINGTON — 35756 — REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1 FOR P.E. STAMP BOX

DATE

JACOBS

Washington State Department of Transportation

SR 302
VICTOR CREEK
REMOVE FISH BARRIER

DRAINAGE DETAIL

PLAN REF NO DD2

SHEET 31 OF 95 SHEETS

T.22N.R.1W.M.

VICTOR CREEK

BEGIN FUTURE OM, OCL, OP, AND BT RELOCATIONS BY OTHERS

TEMPORARY CONSTRUCTION EASEMENT

BEGIN OM REMOVAL BY OTHERS

BEGIN BT ABANDONMENT BY OTHERS

OM REMOVAL BY OTHERS INCLUDES OP CROSSING

OM REMOVAL BY OTHERS INCLUDES UTILITY POLE, OCL CROSSING, AND OP CROSSING

BT ABANDONMENT BY OTHERS INCLUDES BT CROSSING

END FUTURE OM, OCL, OP, AND BT RELOCATIONS BY OTHERS

END OM REMOVAL BY OTHERS

END BT ABANDONMENT BY OTHERS

WSDOT ROW

L LINE

220

BEGIN BT ABANDONMENT BY OTHERS

END BT ABANDONMENT BY OTHERS

TEMPORARY CONSTRUCTION EASEMENT

TEMPORARY CONSTRUCTION EASEMENT

OM REMOVAL BY OTHERS INCLUDES ASSOCIATED UTILITY POLES, GUY WIRES, AND UTILITY BOXES

LEGEND

- EXISTING BURIED TELEPHONE
- EXISTING OVERHEAD POWER
- EXISTING OVERHEAD MULTIPLE UTILITIES
- EXISTING OVERHEAD COMMUNICATION
- EXISTING 4 INCH DIAMETER HDPE FORCEMAIN
- FUTURE OVERHEAD MULTIPLE UTILITIES
- FUTURE UTILITY POLE
- EXISTING UTILITY POLE
- EXISTING ELECTRICAL BOX
- EXISTING TELEPHONE BOX
- EXISTING UTILITY VAULT
- EXISTING GUY WIRE
- EXISTING FORCE MAIN ISOLATION VALVE
- TEMPORARY CONSTRUCTION EASEMENT
- CUT LINE
- FILL LINE

UTILITY NOTES:

1. EXISTING UTILITIES SHOWN ON THE PLANS ARE A COMBINATION OF SURVEYED WASHINGTON 1-CALL UTILITY LOCATION MARKINGS AND FROM UTILITY OWNER MAPPING.

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SCALE IN FEET

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TIME	2:33:15 PM
DATE	2/1/2024
PLOTTED BY	Cgb
DESIGNED BY	C. BOOTH
ENTERED BY	K. TOMLINSON
CHECKED BY	G. LAIRD
PROJ. ENGR.	B. KRAMER
REGIONAL ADM.	S. ROARK

REVISION	DATE	BY

REGION NO. 10 | STATE WASH
JOB NUMBER 23C508
CONTRACT NO.
FED.AID PROJ.NO.
LOCATION NO. XL6186

GREGORY S. LAIRD — STATE OF WASHINGTON — 25756 — REGISTERED PROFESSIONAL ENGINEER
SEE SHEET CT1
DATE
P.E. STAMP BOX

JACOBS

Washington State Department of Transportation

SR 302
VICTOR CREEK
REMOVE FISH BARRIER

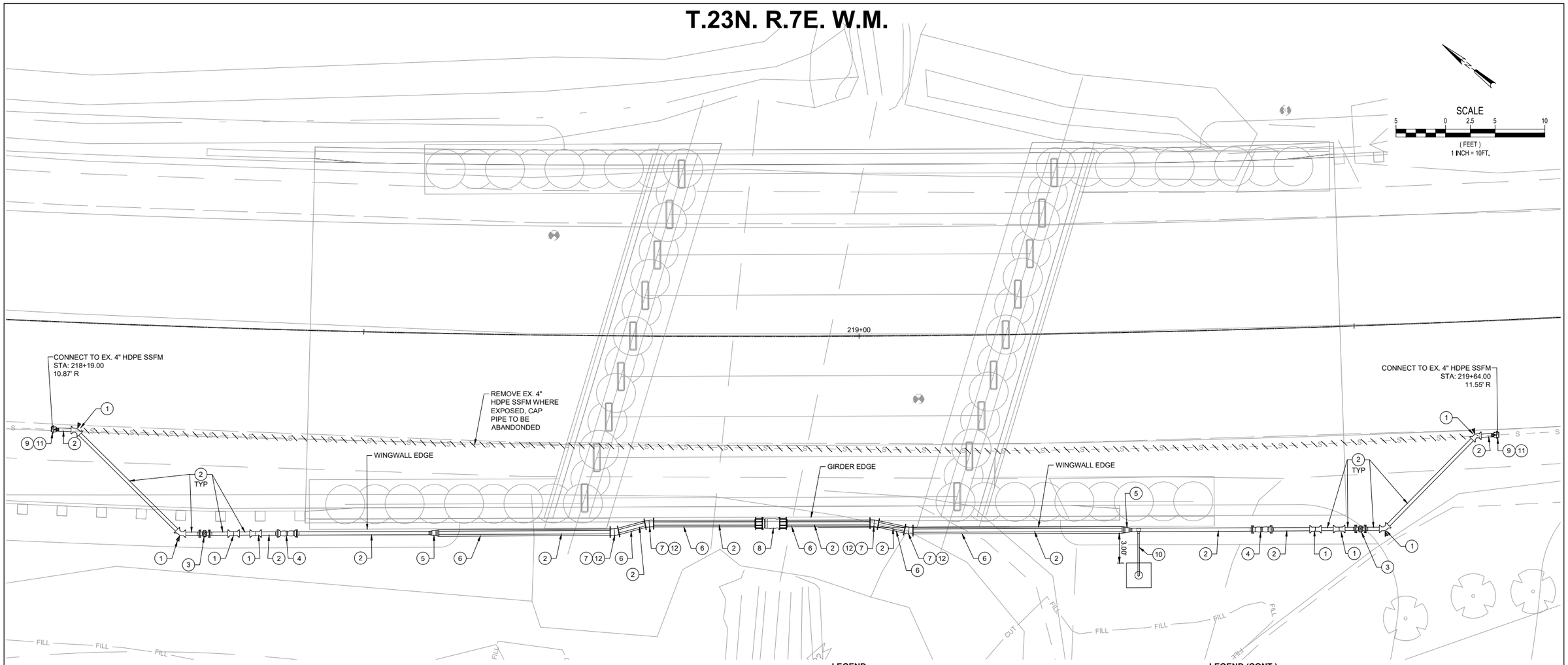
EXISTING UTILITY PLAN

PLAN REF NO UT1

SHEET 32 OF 95 SHEETS

pw:\\HQOLYMAPPPW03P.WSDOT.LOC:WSDOT\Documents_HQ\Fish Passage\ORproj\000\Y12554\Task Order AQ\700PROJTEC\706 Utilities\Sheets\XL6186_PS_UT_001.dgn

T.23N. R.7E. W.M.



GENERAL NOTES:

1. ALL BELOW GRADE BENDS, PLUGS AND VALVES SHALL BE INSTALLED WITH CONCRETE BLOCKING.
2. WHERE 4" DI BENDS ARE INDICATED FOR HDPE FORCE MAIN (KEY NOTE 1), HDPE BENDS FUSED TO PIPE SEGMENT OR HDPE BENDS WITH PE FLANGE ADAPTERS MAY BE USED FOR RESTRAINED JOINTS, WITHOUT STIFFENER INSERTS.
3. REFERENCE TO NAME BRANDS IS TO ESTABLISH BASIS FOR BID. ALTERNATIVE EQUAL PRODUCTS ARE ACCEPTABLE.

Know what's below. Call before you dig.

KEYNOTES:

1. 4" 45° BEND (MJ) (RJ)
   STIFFENER INSERTS (ROMAC)
   4" MJ RESTRAINTS
2. 4" SDR 11 HDPE SPOOL (PER DETAIL C, SHEET UT4 WHERE IN DI CASING PIPE)
3. 4" FORCE MAIN GATE VALVE (FL)
   4" PE FLANGE ADAPTER (2) FUSION WELDED TO HDPE FORCE MAIN, SEE DETAIL SHEET UT04
4. 4" EXPANSION JOINT (EBAA IRON) (FL)
   4" PE FLANGE ADAPTER (2) FUSION WELDED TO HDPE FORCE MAIN
5. 8" CASING END SEAL
6. 8" CL 50 DI CASING
   SEE DETAIL SHEET UT04
   SECURE TO BRIDGE WINGWALL AND GIRDER SEE UTILITY HANGER DETAIL SHEET BG23 LOCATE TWO SUPPORTS FOR EACH 20' LENGTH OF EXPOSED DI CASING (MIN). (HANGERS NOT SHOWN FOR CLARITY.) ISOLATE CASING PIPE FROM HANGER STRAP AND STANDOFF WITH 1/4" THICK NEOPRENE, TRIMMED TO LIMIT OF STRAP AND STANDOFF AT POINTS OF CONTACT.
7. 8" 11.25° DI BEND (FL)
   8" FL ADAPTERS (RJ)
   ROTATE TO BRIDGE CROSSING ELEVATION
   SEE UTILITY HANGER DETAIL SHEET BG23
   LOCATE ONE SUPPORT ADJACENT TO EACH BEND
8. 8" EXPANSION JOINT (EBAA IRON) (FL)
   8" FL ADAPTER (RJ)
   CONTINUE HDPE PIPE THROUGH EXPANSION JOINT
9. REMOVE 4" TEMP. CAP AND BLOCKING
   4" HDPE ELECTROFUSION COUPLING, CONNECT TO EX. HDPE FORCE MAIN
10. 4"x2" SADDLE TAP (ELECTROFUSION)
    2" HDPE PIPE WITH COMPRESSION COUPLINGS
    2" COMBO AIR VAC/RELEASE VALVE
    SEE DETAIL SHEET UT04
11. 4" TEMPORARY CAP WITH BLOCKING, ON EX. FORCE MAIN TO REMAIN
    REMOVE FOR PERMANENT CONNECTION
12. 4" PE BEND, FUSION WELDED TO HDPE FM, OR PROVIDE PIPE RADIUS THROUGH CASING BEND

LEGEND

PROPOSED	EXISTING	DESCRIPTION
CUT		CUT LIMITS
FILL		FILL LIMITS
		TREE
		ORDINARY HIGH WATER MARK FLAG
		BORE HOLE
		BRIDGE STRUCTURAL ELEMENT EDGE
		GUARDRAIL

LEGEND (CONT.)

PROPOSED	EXISTING	DESCRIPTION
	S	4" DIAMETER FORCE MAIN
		8" DIAMETER STEEL CASING
		HDPE SSFM TO BE ABANDONED OR REMOVED WHERE EXPOSED
		4" 45° BEND (MJ) (RJ) AND CONC BLOCKING (SEE GENERAL NOTE #1)
		4" FORCEMAIN GATE VALVE (FL)
		4" EXPANSION JOINT (EBAA IRON) (FL)
		4" CAP
		8" CASING END SEAL
		8" 11.25° DI BEND (FL)
		8" EXPANSION JOINT (EBAA IRON) (FL)
		4" FUSION WELDED PE FLANGE ADAPTER
		8" FLANGE ADAPTER (MJ) (RJ)
		4" HDPE ELEC. FUSION COUPLING
		4"x2" SADDLE TAP AND 2" CORP STOP

FILE NAME	EC-MSCT00000003 - SHTS.dwg				REGION NO.	STATE	FED.AID PROJ.NO.
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PLOTTED BY	SYS				23C508		
DESIGNED BY	TCHO				CONTRACT NO.		LOCATION NO.
ENTERED BY	SYS						XL6186
CHECKED BY	RCLA						
PROJ. ENGR.	B. KRAMER						
REGIONAL ADM.	S. ROARK	REVISION	DATE	BY			

RODNEY C. LANGER JR. STATE OF WASHINGTON 30046 REGISTERED PROFESSIONAL ENGINEER
SEE SHEET CT1
DATE
P.E. STAMP BOX

DAVID EVANS AND ASSOCIATES INC.
14432 SE Eastgate Way
Suite 400
Bellevue, WA 98007
425.519.6500

Washington State Department of Transportation

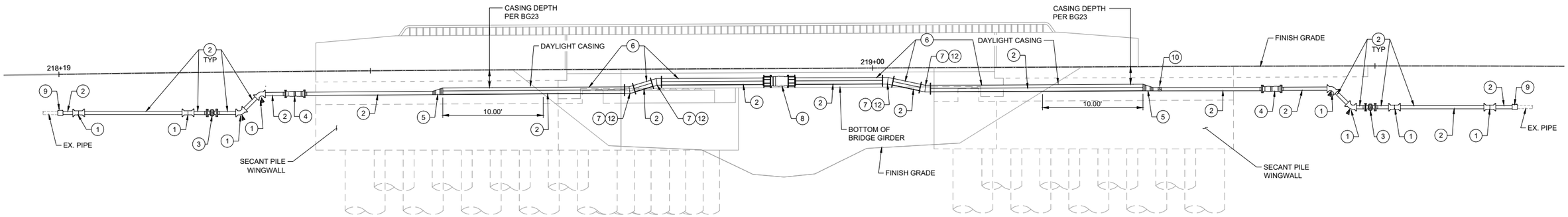
SR 302
VICTOR CREEK
REMOVE FISH BARRIER

PROPOSED UTILITY PLAN

PLAN REF NO
UT2

SHEET
33
OF
95
SHEETS

T.23N. R.7E. W.M.



SCALE

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(FEET)
1 INCH = 10 FT.

GENERAL NOTES:

1. THIS PROFILE IS SCHEMATIC AND SHOWN RELATIVE WITH ROADWAY AND BRIDGE LEVEL. REFER TO SHEET RP1 FOR ACTUAL PROFILE OF ROADWAY.
2. TRACER WIRE SHALL RUN ALONG HOST PIPE THROUGH CASING AND TERMINATE AT VALVE CANS. TERMINATIONS SHALL HAVE SPLICED AND WATERPROOFED RISERS COMING UP EACH VALVE CAN AND SHALL BE ACCESSIBLE INSIDE THE VALVE BOX.
3. CONTRACTOR TO POTHOLE AND FIELD LOCATE EX. FORCE MAIN WHERE TEMPORARY CAP AND FINAL CONNECTIONS ARE TO BE MADE. FM MAY BE UP TO 48" DEEP PER MASON COUNTY RECORD DRAWINGS.

KEYNOTES:

(1) 4" 45° BEND (MJ) (RJ)
STIFFENER INSERTS (ROMAC)
4" MJ RESTRAINTS

(2) 4" SDR 11 HDPE SPOOL (PER DETAIL C, SHEET UT4 WHERE IN DI CASING PIPE)

(3) 4" FORCE MAIN GATE VALVE (FL)
4" PE FLANGE ADAPTER (2) FUSION WELDED TO HDPE FORCE MAIN, SEE DETAIL SHEET UT04

(4) 4" EXPANSION JOINT (EBAA IRON) (FL)
4" PE FLANGE ADAPTER (2) FUSION WELDED TO HDPE FORCE MAIN

(5) 8" CASING END SEAL

(6) 8" CL 50 DI CASING
SEE DETAIL SHEET UT04
SECURE TO BRIDGE WINGWALL AND GIRDER
SEE UTILITY HANGER DETAIL SHEET BG23
LOCATE TWO SUPPORTS FOR EACH 20' LENGTH OF EXPOSED DI CASING (MIN). (HANGERS NOT SHOWN FOR CLARITY.) ISOLATE CASING PIPE FROM HANGER STRAP AND STANDOFF WITH 1/4" THICK NEOPRENE, TRIMMED TO LIMIT OF STRAP AND STANDOFF AT POINTS OF CONTACT.

(7) 8" 11.25° DI BEND (FL)
8" FL ADAPTERS (RJ)
ROTATE TO BRIDGE CROSSING ELEVATION
SEE UTILITY HANGER DETAIL SHEET BG23
LOCATE ONE SUPPORT ADJACENT TO EACH BEND

(8) 8" EXPANSION JOINT (EBAA IRON) (FL)
8" FL ADAPTER (RJ)
CONTINUE HDPE PIPE THROUGH EXPANSION JOINT

(9) REMOVE 4" TEMP. CAP AND BLOCKING
4" HDPE ELECTROFUSION COUPLING, CONNECT TO EX. HDPE FORCE MAIN

(10) 4"x2" SADDLE TAP (ELECTROFUSION)
2" HDPE PIPE WITH COMPRESSION COUPLINGS
2" COMBO AIR VAC/RELEASE VALVE
SEE DETAIL SHEET UT04

(11) 4" TEMPORARY CAP WITH BLOCKING, ON EX. FORCE MAIN TO REMAIN
REMOVE FOR PERMANENT CONNECTION

(12) 4" PE BEND, FUSION WELDED TO HDPE FM, OR PROVIDE PIPE RADIUS THROUGH CASING BEND

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PROJ. ENGR.	B. KRAMER						
REGIONAL ADM.	S. ROARK	REVISION	DATE	BY			

RODNEY C. LANGER JR. STATE OF WASHINGTON 30046 REGISTERED PROFESSIONAL ENGINEER
SEE SHEET CT1
DATE
P.E. STAMP BOX

DAVID EVANS AND ASSOCIATES INC.
14432 SE Eastgate Way
Suite 400
Bellevue, WA 98007
425.519.6500

Washington State Department of Transportation

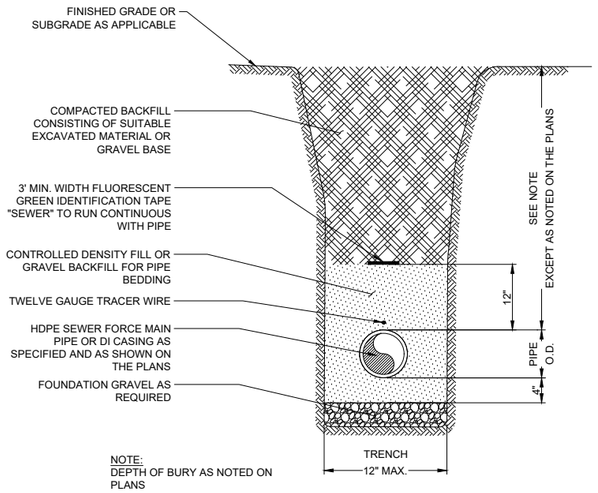
SR 302
VICTOR CREEK
REMOVE FISH BARRIER

PROPOSED UTILITY ELEVATION

PLAN REF NO
UT3

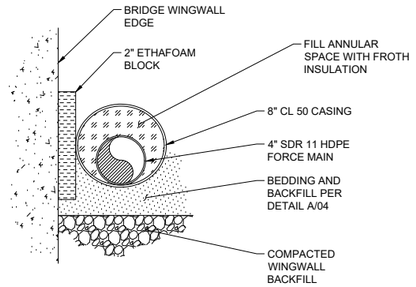
SHEET
34
OF
95
SHEETS

T.23N. R.7E. W.M.



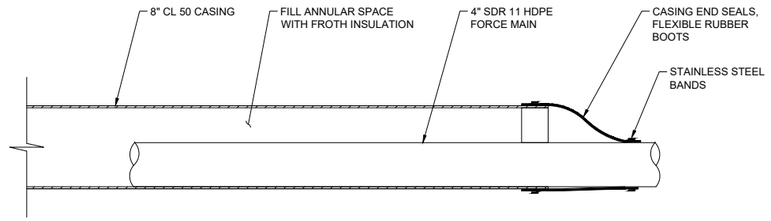
A / UT2 **TYPICAL TRENCH SECTION**

NOT TO SCALE



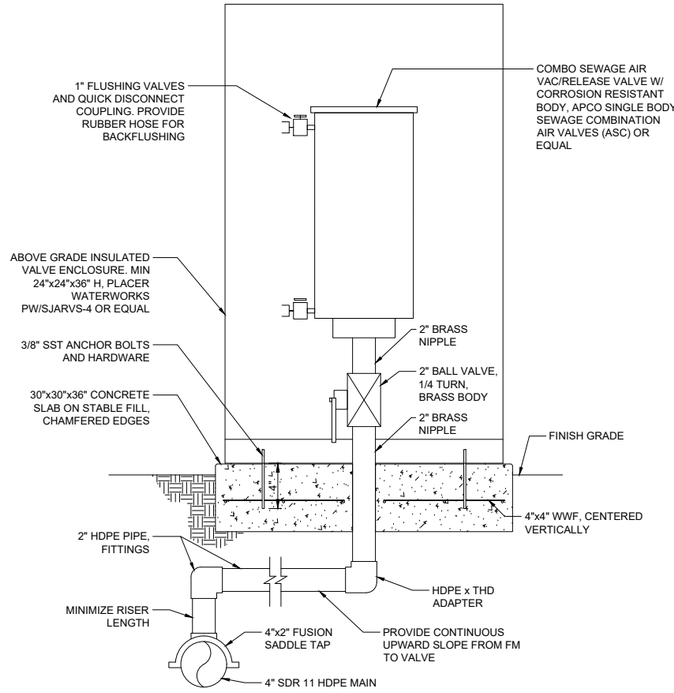
B / UT2 **TYPICAL CASING SECTION**

NOT TO SCALE



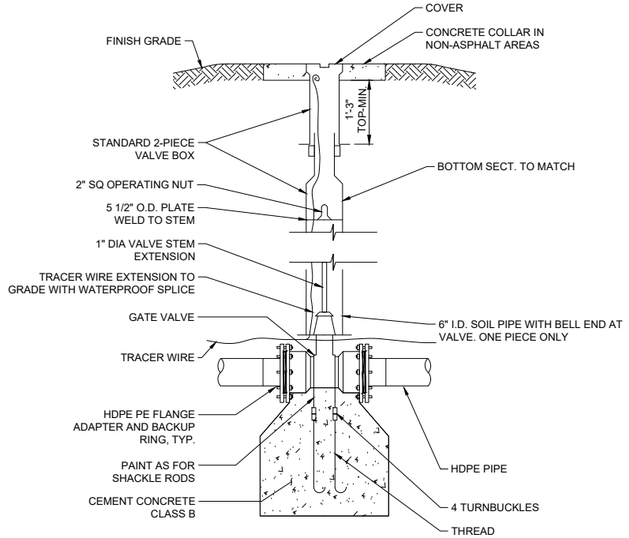
C / UT2 **FORCE MAIN IN DUCTILE IRON CASING DETAIL**

NOT TO SCALE



D / UT2 **COMBINATION SEWAGE AIR VACUUM / RELEASE VALVE DETAIL**

NOT TO SCALE



E / UT2 **TYPICAL VALVE DETAIL**

NOT TO SCALE

FILE NAME	EC-MSCT00000003 - SHTS.dwg				REGION NO.	STATE	FED.AID PROJ.NO.
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ENTERED BY	SYS						XL6186
CHECKED BY	RCLA						
PROJ. ENGR.	**B. KRAMER**						
REGIONAL ADM.	**S. ROARK**	**REVISION**	**DATE**	**BY**			

RODNEY C. LANGER JR. STATE OF WASHINGTON 30046 REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1

DATE

P.E. STAMP BOX

DAVID EVANS AND ASSOCIATES INC.
14432 SE Eastgate Way
Suite 400
Bellevue, WA 98007
425.519.6500

Washington State Department of Transportation

SR 302
VICTOR CREEK
REMOVE FISH BARRIER

PROPOSED UTILITY DETAILS

PLAN REF NO
UT4

SHEET 35 OF 95 SHEETS

T.23N. R.7E. W.M.

GENERAL NOTES:

15.1(1) ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH COUNTY STANDARDS MANUAL (MASON COUNTY UTILITIES AND WASTE MANAGEMENT DESIGN AND CONSTRUCTION STANDARDS) AND THE MOST CURRENT COPY OF THE STATE OF WASHINGTON STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION (WSDOT/APWA). IN CASES OF CONFLICT, THE MOST STRINGENT STANDARD SHALL APPLY.

15.1(2) ALL SAFETY STANDARDS AND REQUIREMENTS SHALL BE COMPLIED WITH AS SET FORTH BY OSHA, WISHA AND WASHINGTON STATE DEPARTMENT OF LABOR AND INDUSTRIES.

15.1(3) ALL APPROVALS AND PERMITS REQUIRED BY THE COUNTY SHALL BE OBTAINED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.

15.1(4) ~~IF CONSTRUCTION IS TO TAKE PLACE IN THE COUNTY RIGHT-OF-WAY, THE CONTRACTOR SHALL NOTIFY THE COUNTY AND OBTAIN ALL THE REQUIRED APPROVALS AND PERMITS.~~

15.1(5) A PRE-CONSTRUCTION MEETING SHALL BE HELD WITH THE UTILITIES AND WASTE MANAGEMENT DEPARTMENT BEFORE THE START OF CONSTRUCTION.

15.1(6) THE UTILITIES AND WASTE MANAGEMENT DEPARTMENT INSPECTOR SHALL BE NOTIFIED A MINIMUM OF ~~48 HOURS~~ SEVEN (7) DAYS IN ADVANCE OF ~~A CONNECTION TO AN EXISTING MAIN~~ ANY WORK ON THE COUNTY'S SEWER INFRASTRUCTURE. THE ENGINEERING INSPECTOR SHALL BE PRESENT AT THE TIME OF ~~THE CONNECTION~~ CONSTRUCTION ON THE COUNTY'S SEWER INFRASTRUCTURE.

15.1(7) THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION BY CALLING THE UNDERGROUND LOCATE LINE AT 1-800-424-5555 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION.

15.1(8) ~~GRAVITY SEWER MAIN SHALL BE PVC; ASTM D 3034 SDR 35 WITH JOINTS AND RUBBER GASKETS CONFORMING TO ASTM D 3212 AND ASTM F 477. ALL IN-LINE FITTINGS WILL BE GASKETED; ALL SEWER LATERALS WILL BE SOLVENT WELDED.~~

15.1(9) ~~PRE-CAST MANHOLES SHALL MEET THE REQUIREMENTS OF ASTM C 478. MANHOLES SHALL BE TYPE 1 48" MANHOLE UNLESS OTHERWISE SPECIFIED ON THE PLANS. JOINTS SHALL BE GASKETED AND WATERTIGHT, AND SHALL BE GROUTED FROM THE INSIDE AND OUTSIDE OF THE MANHOLES. LIFT HOLES SHALL BE GROUTED FROM THE OUTSIDE AND INSIDE OF THE MANHOLE.~~

15.1(10) ~~MANHOLE FRAMES AND COVERS SHALL BE DUCTILE IRON CASTING MARKED "SEWER" CONFORMING TO THE REQUIREMENTS OF ASTM A-30.~~

15.1(11) ~~SEWER LATERALS SHALL BE PVC, ASTM D 3034 SDR 35 ALL PIPE AND FITTINGS. SHALL BE SOLVENT WELDED. SEWER LATERAL CONNECTIONS SHALL BE MADE BY AN INSERT-A-TEE TAP TO AN EXISTING MAIN OR A WYE BRANCH ON A NEW MAIN CONNECTED ABOVE THE SPRING LINE OF THE PIPE.~~

15.1(12) ~~ALL GRAVITY SEWER MAINS SHALL BE FIELD STAKED FOR GRADE AND ALIGNMENT.~~

15.1(13) ALL NEW PLASTIC LOW PRESSURE SEWER MAINS AND PRESSURE SEWER FORCE MAINS SHALL BE INSTALLED WITH CONTINUOUS 12 GAUGE GREEN COATED SOLID COPPER WIRE AND BURIED LOCATE WARNING TAPE. ALL MATERIALS SHALL BE FURNISHED BY THE CONTRACTOR.

15.1(14) ~~BEDDING OF THE GRAVITY SEWER MAIN SHALL BE PLACED IN ACCORDANCE WITH SECTION 7-08 AND SECTION 9-03 OF THE STANDARD SPECIFICATIONS.~~

15.1(15) ~~TEMPORARY STREET PATCHING SHALL BE ALLOWED FOR AS APPROVED BY THE UTILITIES AND WASTE MANAGEMENT DEPARTMENT. TEMPORARY STREET PATCHING SHALL CONFORM TO THE STANDARD SPECIFICATIONS.~~

15.1(16) ~~EROSION CONTROL MEASURES SHALL BE TAKEN BY THE CONTRACTOR DURING CONSTRUCTION TO PREVENT INFILTRATION OF EXISTING AND PROPOSED STORM DRAINAGE FACILITIES AND ROADWAYS.~~

15.1(17) ~~THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). PRIOR TO DISRUPTION OF ANY TRAFFIC, TRAFFIC CONTROL PLANS SHALL BE PREPARED AND SUBMITTED TO THE COUNTY FOR APPROVAL. NO WORK SHALL COMMENCE UNTIL ALL APPROVED TRAFFIC CONTROL IS IN PLACE.~~

15.1(18) A COPY OF THE APPROVED PLANS MUST BE KEPT ON SITE WHENEVER CONSTRUCTION IS IN PROGRESS.

15.1(19) ANY CHANGES TO THE DESIGN SHALL BE REVIEWED BY THE APPROPRIATE STAFF AND APPROVED BY THE UTILITIES AND WASTE MANAGEMENT DEPARTMENT OR DESIGNEE PRIOR TO IMPLEMENTATION.

15.1(20) ALL NEW GRAVITY SEWER MAINS, SEWER LATERALS, LOW PRESSURE SEWER MAINS AND PRESSURE SEWER FORCE MAINS SHALL BE HIGH VELOCITY CLEANED AND PRESSURE TESTED PRIOR TO PAVING IN CONFORMANCE WITH THE ABOVE REFERENCED SPECIFICATIONS. ~~TESTING OF THE GRAVITY SEWER MAIN SHALL INCLUDE VIDEO INSPECTION OF THE MAIN BY THE CONTRACTOR. IMMEDIATELY PRIOR TO VIDEO INSPECTION, ENOUGH WATER SHALL BE RUN DOWN THE LINE SO IT COMES OUT THE LOWER MANHOLE.~~ A COPY OF THE VIDEO INSPECTION AND A COPY OF THE RED-LINE DRAWING SHALL BE SUBMITTED TO THE COUNTY. ACCEPTANCE OF THE LINE WILL BE MADE AFTER THE TAPE HAS BEEN REVIEWED AND APPROVED BY THE COUNTY.

15.1(21) THE METHOD OF CLEANING SHALL BE HIGH-VELOCITY WATER PRESSURE CLEANING. USING A VACTOR TRUCK, ALL ROCKS AND DEBRIS SHALL BE REMOVED AND BE DISPOSED OF AT THE ~~DEVELOPER'S~~ CONTRACTOR'S EXPENSE.

BACKFILL NOTES:

27.1 VAULTS AND VALVE BOXES SHALL BE PLACED ON BACKFILL THAT HAS BEEN COMPACTED TO A MINIMUM OF 95% OF MAXIMUM THEORETICAL DENSITY. BACKFILLING SHALL BE PERFORMED CAREFULLY SO THAT NO DAMAGE IS DONE TO PIPE ENTERING OR EXITING THE VAULT OR TO THE VAULT OR VALVE BOX. THE COUNTY MAY DIRECT THE CONTRACTOR TO USE SPECIAL BACKFILL TECHNIQUES WHEN IT DEEMS NECESSARY.

AS-BUILT DRAWING NOTES:

31.1 AS-BUILT DRAWINGS SHALL BE PREPARED BY THE CONTRACTOR AND CHECKED BY THE ENGINEERING INSPECTOR IN CONJUNCTION WITH THE PERMIT AND SHALL SHOW THE AS-BUILT LOCATION OF THE ~~SIDE~~ SEWER INSTALLATION.

31.2 LOW PRESSURE SEWER MAIN AS BUILT DRAWING SHALL BE PREPARED BY THE CONTRACTOR AND ~~CERTIFIED~~ REVIEWED BY THE DESIGN ENGINEER.

VALVE NOTES:

32.3(2) ~~ALL VALVES UP TO 2-INCHES ON LOW PRESSURE SEWER MAINS SHALL BE BRONZE. FIPT X FIPT BALL VALVE WITH APPROPRIATE COUPLINGS.~~ ALL VALVES GREATER THAN 2-INCHES ON LOW PRESSURE SEWER MAINS SHALL BE RESILIENT SEAT WEDGE GATE VALVES.

32.3(3) AIR RELEASE VALVES:
~~PIPING AND FITTINGS WILL BE BRASS. AIR RELEASE VALVES SHALL BE CRISPIN MODEL PVC US10S OR EQUAL WITH ¼" OPERATING ORIFICE AND OPERATING RANGE OF 10 TO 100 PSI.~~ AIR RELEASE VALVES AND AIR/VACUUM VALVES SHALL BE LOCATED AT THE HIGH POINTS OF THE LINE. AIR RELEASE VALVES SHALL BE FITTED WITH AN ACTIVATED CARBON CANISTER TO ABSORB COMPOUNDS WITH DISAGREEABLE ODORS PRIOR TO RELEASING THE AIR TO THE SURROUNDING AREA. ~~GRADES SHALL BE DESIGNED TO MINIMIZE THE NEED FOR AIR/VACUUM VALVES WHEN PRACTICAL.~~ VEHICULAR ACCESS TO VALVE IS REQUIRED FOR MAINTENANCE. SEE

THRUST BLOCKING NOTES:

32.4(1) LOCATION OF THRUST BLOCKING SHALL BE SHOWN ON PLANS. THRUST BLOCK CONCRETE SHALL BE POURED AGAINST UNDISTURBED EARTH. A BARRIER SHALL BE PLACED BETWEEN ALL THRUST BLOCKS AND FITTINGS.

EXISTING CONDITIONS NOTES:

101. LOCATIONS OF KNOWN EXISTING UTILITIES SHOWN ARE BASED ON AVAILABLE RECORDS AND SHOULD BE CONSIDERED AS APPROXIMATE, ILLUSTRATIVE AND NOT NECESSARILY COMPLETE. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING, LOCATING, AND PROTECTING ALL UTILITIES WITHIN THE PROJECT AREA. CONTRACTOR SHALL EXPOSE AND LOCATE ALL CONFLICTING HORIZONTAL AND VERTICAL INTERFERING UTILITIES IN ADVANCE OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING AND REPAIRING ANY UTILITIES DAMAGED DURING CONSTRUCTION TO THE SATISFACTION OF THE UTILITY OWNER. IDENTIFICATION, LOCATION, MARKING AND RESPONSIBILITY FOR UNDERGROUND FACILITIES OR UTILITIES IS GOVERNED BY THE PROVISIONS OF CHAPTER 19.122, REVISED CODE OFWASHINGTON.

102. UTILITIES OTHER THAN THOSE SHOWN MAY EXIST ON THE SITE. ALL SANITARY SEWER, GAS, TELEPHONE AND OTHER WET AND DRY UTILITIES MAY NOT BE SHOWN. THE COUNTY ASSUMES NO LIABILITY FOR THE ACCURACY OR COMPLETENESS OF THE BASEMAP. UNDERGROUND UTILITY LOCATIONS ARE ONLY APPROXIMATE. UNDERGROUND CONNECTIONS ARE GENERALLY SHOWN AS STRAIGHT LINES BETWEEN VISIBLE SURFACE LOCATIONS BUT MAY CONTAIN BENDS OR CURVES NOT SHOWN.

103. POTHOLE TO CONFIRM DEPTH, MATERIAL AND SIZE OF EX. UTILITY CROSSINGS THAT MAY BE IMPACTED BY WORK. COORDINATE WITH COUNTY OR COUNTY REPRESENTATIVE. THE CONTRACTOR SHALL TAKE EVERY PRECAUTION NECESSARY TO PROTECT THE EXISTING SEWER SYSTEM. DIRT, ROCK OR OTHER CONSTRUCTION DEBRIS WILL NOT BE ALLOWED INTO THE EXISTING SEWER SYSTEM.

104. THE CONTRACTOR SHALL TAKE EVERY PRECAUTION NECESSARY TO PROTECT THE EXISTING SEWER SYSTEM. DIRT, ROCK OR OTHER CONSTRUCTION DEBRIS WILL NOT BE ALLOWED INTO THE EXISTING SEWER SYSTEM.

SERVICE MAINTENANCE AND BYPASS NOTES:

105. THE COUNTY SHALL BE RESPONSIBLE FOR MAINTAINING SEWER SERVICE DURING CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION WITH THE COUNTY FOR TEMPORARY SEWER SERVICE SCHEDULING. THE CONTRACTOR SHALL PERFORM WORK IN A MANNER THAT WILL PROVIDE THE CAPABILITY FOR THE COUNTY TO PROVIDE TEMPORARY SEWER SERVICE; THIS MAY INCLUDE, BUT NOT BE LIMITED TO, WORKING DURING NON-BUSINESS HOURS.

106. THE COUNTY SHALL BE RESPONSIBLE FOR PREPARING AND IMPLEMENTING A SEWER BYPASS OR ALTERNATIVE MANAGEMENT PLAN.

RIGHT OF WAY NOTES:

109. ALL ROW WORK SHALL BE PERFORMED PER THE SR 302 VICTOR CREEK FISH PASSAGE PROJECT ROW PERMIT CONDITIONS AND REQUIREMENTS. ALL WORK ASSOCIATED WITH THE FORCE MAIN RECONNECTION SHALL BE SUBJECT TO THE SR 302 VICTOR CREEK FISH PASSAGE PROJECT TRAFFIC CONTROL PLAN AND REQUIREMENTS.

PLAN NOTES:

1. THE CONTRACTOR SHALL ADHERE TO ALL APPLICABLE NOTES UNLESS OTHERWISE DIRECTED BY THESE PLANS, THE ENGINEER OR A COUNTY REPRESENTATIVE.
2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT PLANS AND SPECIFICATIONS. ALL WORK SHALL COMPLY WITH THE APPLICABLE PLANS AND SPECIFICATIONS IN ORDER OF PRECEDENCE AS DESCRIBED IN THE CONTRACT DOCUMENTS.
3. THE CONTRACTOR SHALL VERIFY ALL EXISTING DATA SHOWN IN THESE DOCUMENTS AND NOTIFY ENGINEER IMMEDIATELY OF ANY CONFLICTS WITH PROPOSED FEATURES PRIOR TO CONSTRUCTION.
4. ALL COMPACTION METHODS, MATERIALS AND PERFORMANCE CRITERIA SHALL BE IN ACCORDANCE WITH THE PROJECT PLANS AND SPECIFICATIONS.
5. SANITARY SEWER PIPE SHALL BE OF MATERIALS PER THE CONTRACT SPECIFICATIONS.
6. ALL PIPE LENGTHS, INVERT ELEVATIONS AND SEWER STRUCTURE LOCATIONS ARE MEASURED AT THE CENTER OF THE SEWER STRUCTURE UNLESS NOTED OTHERWISE.
7. ALL LOCATIONS OF EXISTING UTILITIES SHOWN SHOULD BE CONSIDERED APPROXIMATE ONLY AND NOT NECESSARILY COMPLETE. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE ACCURACY OF ALL UTILITY LOCATIONS SHOWN AND AVOID OTHER UTILITIES NOT SHOWN ON THE PLANS. EXISTING UTILITIES SHALL BE PROTECTED, SUPPORTED, OR MAINTAINED DURING CONSTRUCTION.
8. CONTACT THE UNDERGROUND UTILITIES LOCATION SERVICE (1-800-424-5555) AT LEAST 48 HOURS PRIOR TO CONSTRUCTION. SEE THE PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION.
9. ALL WORK (INCLUDING BUT NOT LIMITED TO OPEN CUT RESTORATION AND REPAIR, REMOVAL OF STRUCTURE, EXCAVATION, STAGING, ETC.) SHALL BE LIMITED TO THE PUBLIC RIGHT-OF-WAY OR PROPERTY OWNED BY THE COUNTY OR EASEMENTS OF COUNTY UNLESS AN EXECUTED TEMPORARY CONSTRUCTION EASEMENT IS RECORDED AND IS ON FILE WITH THE COUNTY FOR THE PARCEL OF PRIVATE PROPERTY.
10. ALL LAWN AND VEGETATED AREA DISTURBED BY CONSTRUCTION EQUIPMENT, VEHICLES OR PERSONNEL SHALL BE RESTORED TO ORIGINAL CONDITION OR BETTER, AT THE CONTRACTOR'S EXPENSE.
11. THE CONTRACTOR SHALL PROTECT ALL UTILITIES WITHIN AND ADJACENT TO THE CONSTRUCTION LIMITS FROM DAMAGE.
12. PROTECT EXISTING CURB, GUTTER, SIDEWALK, DRIVEWAYS AND SHOULDER (PAVED OR GRAVEL) TO REMAIN FROM DAMAGE. CONTRACTORS SHALL REPLACE AT THEIR OWN COST ANY FACILITY TO REMAIN THAT IS DAMAGED AS A RESULT OF THE CONTRACTOR'S OPERATIONS.
13. ANY EXCAVATION WITHIN 3 FEET OF EXISTING GAS LINE SHALL BE POTHOLED TO CONFIRM LOCATION OF GAS LINE BEFORE BEGINNING WORK. CONTRACTOR TO PROTECT EXISTING GAS AND EXCAVATE WITH EXTREME CAUTION IN VICINITY. CONTACT UTILITY COMPANY.

PIPE FITTING AND CONNECTION NOTES:

21.1 UNLESS OTHERWISE CALLED FOR, SEWER LATERAL PIPE SHALL BE IRON PIPE SIZE HIGH-DENSITY POLYETHYLENE PLASTIC PIPE (HDPE SDR 11,160PSI) AND MEET THE FOLLOWING SPECIFICATIONS.

21.2 BASE RESIN: CONFORM TO ALL REQUIREMENTS OF ASTM D 48, TYPE III, CLASS C, CATEGORY 5, GRADE P34, WITH A PPI RATING OF PE 3408.

21.3 MELT INDEX: LESS THAN 0.25 GRAMS/10 MIN. AS DETERMINED BY ASTM D 1238, CONDITION E.

21.4 ENVIRONMENTAL STRESS CHECK RESISTANCE: NO CRACKS AFTER 192 HOURS AT 100 C AS DETERMINED BY ASTM D 1693, CONDITION C.

21.5 RATING: LONG-TERM HYDROSTATIC STRENGTH OF 1450 PSI AND HYDROSTATIC DESIGN STRESS OF 730 PSI AS DETERMINED BY ASTM D 2837.

21.6 WORKING PRESSURE RATING: 160 PSI.

21.7 LABORATORY TEST REQUIREMENTS: WITHSTAND WITHOUT FAILURE A MINIMUM BURST PRESSURE OF 560 PSI WHEN APPLIED IN 60 TO 70 SECONDS WITH WATER AT 730 F. TEST IN ACCORDANCE WITH ASTM D 1599. TEST ONE PERCENT BUT NOT MORE THAN THREE LENGTHS.

22.1 ~~IF A SEWER LATERAL CONNECTION IS NOT AVAILABLE, THE PROPERTY OWNER OR LICENSED~~ THE CONTRACTOR SHALL MAKE A NEW TAP ON THE LOW PRESSURE SEWER MAIN. THIS WILL BE DONE BY ELECTRO FUSION, SIDE WALL FUSION SADDLES OR A MECHANICAL SADDLE. ALL MATERIALS AND METHODS USED FOR TAPPING THE MAIN SHALL BE AS SPECIFIED OR AS APPROVED BY THE UTILITIES AND WASTE MANAGEMENT DEPARTMENT. A MINIMUM OF 1-1/4 INCH DIAMETER PIPE SHALL BE USED FOR LOW PRESSURE SEWER CONNECTIONS.

22.2 PRESSURE PIPE FOR L.P.S. MAINS:
POLYETHYLENE PRESSURE PIPE AWWA 906, PE 3408, DR 11, ASTM D3035, F 714, NSF 61, C3 2" AND LARGER (OD-I.P.S.)

22.3 PRESSURE PIPE FITTING JOINTS:
JOINTS SHALL BE AS CALLED FOR ON THE PLANS ~~FLANGED, THERMAL FUSION BUTT-WELDED. JOINTS, IN PIPES WITH A DIAMETER OF 2-INCH OR LESS, SHALL BE MADE ONLY AT PUMP BASINS, VALVES, FITTINGS AND CHANGES IN PIPE DIAMETER. FOR PIPES LARGER THAN 2-INCH IN DIAMETER, JOINTS BETWEEN PIPE SECTIONS SHALL BE THERMAL FUSION BUTT-WELDED. ALL FLANGES AND FITTINGS SHALL BE THERMAL FUSION BUTT-WELDED TO THE PIPE. INTERNAL BEADS FROM WELDING AT FLANGES AND FITTINGS OF 2-INCH AND LARGER DIAMETER PIPES SHALL BE REMOVED. OPERATORS OF FUSION WELDING EQUIPMENT SHALL BE TRAINED BY THE PIPE MANUFACTURER. WHO SHALL CERTIFY THAT OPERATORS ARE QUALIFIED.~~ ALL FITTINGS WILL BE HDPE DR11 UNLESS APPROVED OTHERWISE BY THE UTILITIES AND WASTE MANAGEMENT DEPARTMENT.

22.4 SEWER INTERNAL PRESSURE FITTINGS;
PVC 1120 SCHEDULE 80 ASTM D1785 SCHEDULE 80 TREADED FITTINGS ASTMD2464.

32.2(3) CONNECTIONS TO LOW PRESSURE MAINS SEWER:
CONNECTION TO EXISTING LOW PRESSURE
SEWER MAIN SHALL BE DONE BY USING AN ELECTRO FUSION STOP SADDLE THREADED FOR A CORPORATION STOP. ~~FOR LARGE CONNECTIONS A TAPPING SLEEVE SHALL BE USED WITH A FLANGED OUTLET AND AN EPOXY COATED RESILIENT WEDGE GATE VALVE. WHEN CONNECTING A GRINDER SYSTEM SEWER LATERAL TO A LIFT STATION PRESSURE FORCE SEWER MAIN, A CHECK VALVE AND ISOLATION VALVE AT THE PROPERTY LINE SHALL BE INSTALLED. THE ISOLATION VALVE SHALL HAVE A RISER PROVIDED FOR OPERATION.~~

MASON COUNTY 1854

FILE NAME	EC-MSCT00000003 - SHTS.dwg				REGION NO.	STATE	FED.AID PROJ.NO.
TIME	-				10	WASH	
DATE	1/31/24				JOB NUMBER		
PLOTTED BY	SYS				23C508		
DESIGNED BY	TCHO				CONTRACT NO.		LOCATION NO.
ENTERED BY	SYS						XL6186
CHECKED BY	RCLA						
PROJ. ENGR.	**B. KRAMER**						
REGIONAL ADM.	**S. ROARK**	**REVISION**	**DATE**	**BY**			

RODNEY C. LANGER JR. STATE OF WASHINGTON 20046 REGISTERED PROFESSIONAL ENGINEER
SEE SHEET CT1
DATE
P.E. STAMP BOX

DAVID EVANS AND ASSOCIATES INC.
14432 SE Eastgate Way
Suite 400
Bellevue, WA 98007
425.519.6500

Washington State Department of Transportation

SR 302
VICTOR CREEK
REMOVE FISH BARRIER

PROPOSED UTILITY NOTES

PLAN REF NO
UT5

SHEET
36
OF
95
SHEETS

T.22N.R.1W.W.M

LEGEND

PROPOSED STREAM ALIGNMENT	57
EXISTING INDEX CONTOUR	45
EXISTING INTERMEDIATE CONTOUR	
TEMPORARY CONSTRUCTION EASEMENT	
PROPOSED CUT LINE	CUT
PROPOSED FILL LINE	FILL
PROPOSED STREAM BANK LINES	
PROPOSED EDGE OF PAVEMENT	
PROPOSED DITCH	
LOW FLOW CHANNEL	

SR 302

WSDOT ROW

BT

TEMPORARY CONSTRUCTION EASEMENT

STA 57+20.00 CHANNEL SLOPES
VARY DUE TO TRANSITION
SEE SHEET CD1

SR302 STA. 218+95.96 P.O.C. =
VC STA. 57+62.29 P.O.T.

PROPOSED MEANDER BAR
STA 57+76

VC LINE

VARIES

VICTOR CREEK

BEGIN CHANNEL GRADING
MATCH EXISTING
STA 57+00.00

WOODY MATERIAL STRUCTURE 2

NEW MEANDER BAR HEAD
STA 57+54

NEW BRIDGE

END CHANNEL GRADING
MATCH EXISTING
STA 58+49.15

STA 58+29.15 CHANNEL SLOPES
VARY DUE TO TRANSITION.
SEE SHEET CD1.

WOODY MATERIAL STRUCTURE 1

TEMPORARY CONSTRUCTION EASEMENT

57 58 59 220

0 10 20
SCALE IN FEET

STREAM NOTES:

1. SEE SHEET CP1 FOR STREAM PROFILE.
2. SEE SHEET CD1 TO CD2 FOR STREAM AND MEANDER BAR DETAILS.
3. SEE SHEET CD3 TO CD4 FOR WOODY MATERIAL DETAILS.
4. LOCATIONS AND ORIENTATION OF WOODY MATERIAL STRUCTURES AS SHOWN ON THIS SHEET ARE APPROXIMATE, THEY SHALL BE STAKED PER PLAN AND FINAL LOCATIONS AND ORIENTATIONS APPROVED BY THE ENGINEER.

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TIME	3:47:18 PM						
DATE	1/30/2024				JOB NUMBER 23C508		
PLOTTED BY	Cgb						
DESIGNED BY	S. BEVAN				CONTRACT NO.		LOCATION NO. XL6186
ENTERED BY	C. BOOTH						
CHECKED BY	J. HEILMAN						
PROJ. ENGR.	B. KRAMER						
REGIONAL ADM.	S. ROARK	REVISION	DATE	BY			

JULIE HEILMAN — STATE OF WASHINGTON — 41919 — REGISTERED PROFESSIONAL ENGINEER
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DATE

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REMOVE FISH BARRIER

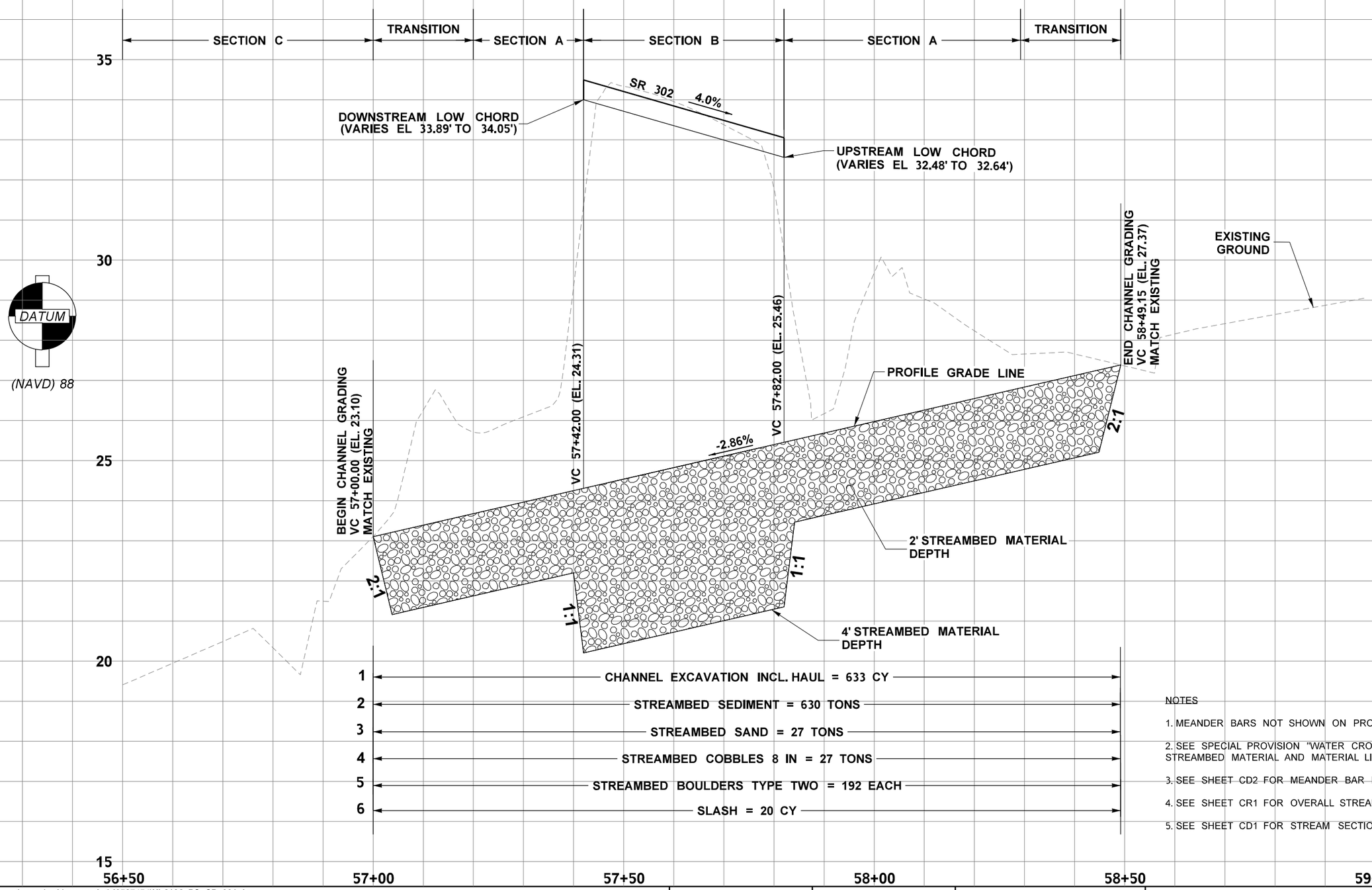
STREAM PLAN

PLAN REF NO **CR1**

SHEET 37 OF 95 SHEETS

pw:\\HQOLY\MAPPPW03P.WSDOT.LOC:WSDOT\Documents_HQ\Fish Passage\ORproj\0001Y125541Task Order AQ\700PROJTEC\1703 Drainage\Sheets\XL6186_PS_DR_001.dgn

VC LINE PROFILE



NOTES

1. MEANDER BARS NOT SHOWN ON PROFILE FOR CLARITY.
2. SEE SPECIAL PROVISION "WATER CROSSINGS" FOR STREAMBED MATERIAL AND MATERIAL LIFTS.
3. SEE SHEET CD2 FOR MEANDER BAR DETAILS.
4. SEE SHEET CR1 FOR OVERALL STREAM PLAN.
5. SEE SHEET CD1 FOR STREAM SECTIONS.

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DATE	1/30/2024				CONTRACT NO.		LOCATION NO. XL6186
PLOTTED BY	Cgb						
DESIGNED BY	S. BEVAN						
ENTERED BY	C. BOOTH						
CHECKED BY	J. HEILMAN						
PROJ. ENGR.	B. KRAMER						
REGIONAL ADM.	S. ROARK	REVISION	DATE	BY			

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VICTOR CREEK
REMOVE FISH BARRIER

STREAM PROFILE

PLAN REF NO CP1

SHEET 38 OF 95 SHEETS

TYPICAL SECTION NOTES:

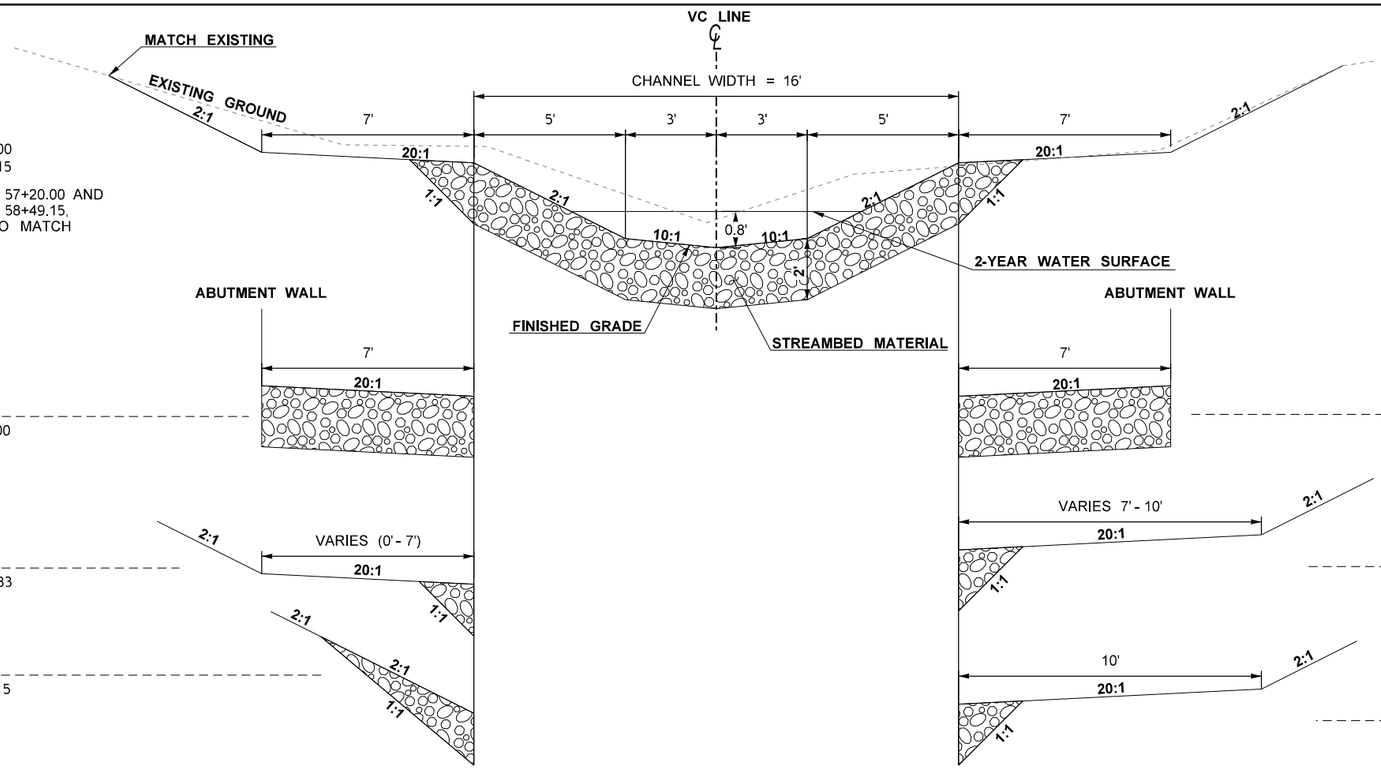
1. THE 2:1 TIE IN CUT SLOPES, EXISTING GROUND, AND SR-302 FINISH GROUND ARE FOR ILLUSTRATIVE PURPOSES TO DEPICT THEM RELATIVE TO THE POSITION OF THE TYPICAL CHANNEL SECTIONS.

2. STREAMBED MATERIAL THICKNESS IS 2 FEET UNLESS OTHERWISE NOTED AND SHALL BE IN ACCORDANCE WITH SPECIAL PROVISION "WATER CROSSINGS."

SECTION A

VC 57+00.00 TO VC 57+42.00
VC 57+82.00 TO VC 58+49.15

FROM VC 57+00.00 TO VC 57+20.00 AND FROM VC 58+29.15 TO VC 58+49.15, EVENLY TAPER SECTION TO MATCH EXISTING CHANNEL.



CONDITION A1
VC 57+39.00 TO VC 57+42.00

CONDITION A2
VC 57+82.00 TO VC 57+87.83

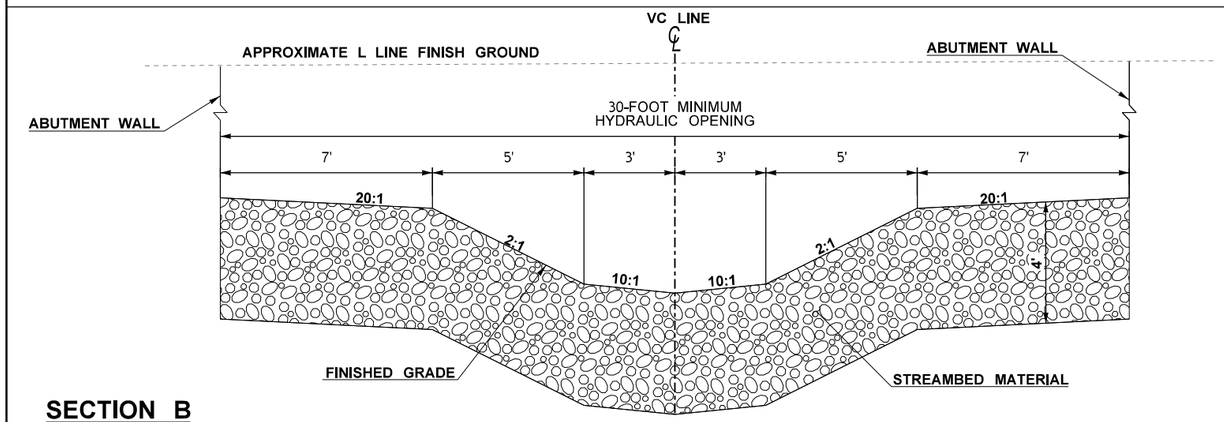
CONDITION A3
VC 57+87.83 TO VC 58+49.15

CONDITION A4
VC 57+82.00 TO VC 57+87.83

CONDITION A5
VC 57+87.83 TO VC 57+97.83
EVENLY TAPER FLOODPLAIN BENCH FROM 7' TO 10' WIDE.

CONDITION A6
VC 57+97.83 TO VC 58+49.15

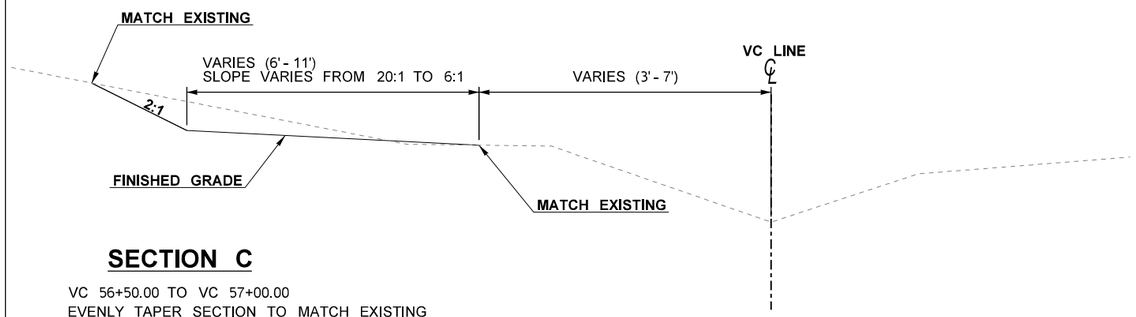
SECTION A - TYPICAL CHANNEL OUTSIDE STRUCTURE
(LOOKING UPSTREAM)



SECTION B

VC 57+42.00 TO VC 57+82.00

SECTION B - TYPICAL CHANNEL INSIDE STRUCTURE
(LOOKING UPSTREAM)



SECTION C

VC 56+50.00 TO VC 57+00.00
EVENLY TAPER SECTION TO MATCH EXISTING AND PROPOSED STREAM SECTIONS.

SECTION C - OVERBANK CHANNEL GRADING
(LOOKING UPSTREAM)

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DATE	1/30/2024				JOB NUMBER		
PLOTTED BY	Cgb				23C508		
DESIGNED BY	S. BEVAN				CONTRACT NO.		LOCATION NO.
ENTERED BY	C. BOOTH						XL6186
CHECKED BY	J. HEILMAN						
PROJ. ENGR.	B. KRAMER						
REGIONAL ADM.	S. ROARK	REVISION	DATE	BY			

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REMOVE FISH BARRIER

STREAM DETAILS

PLAN REF NO
CD1

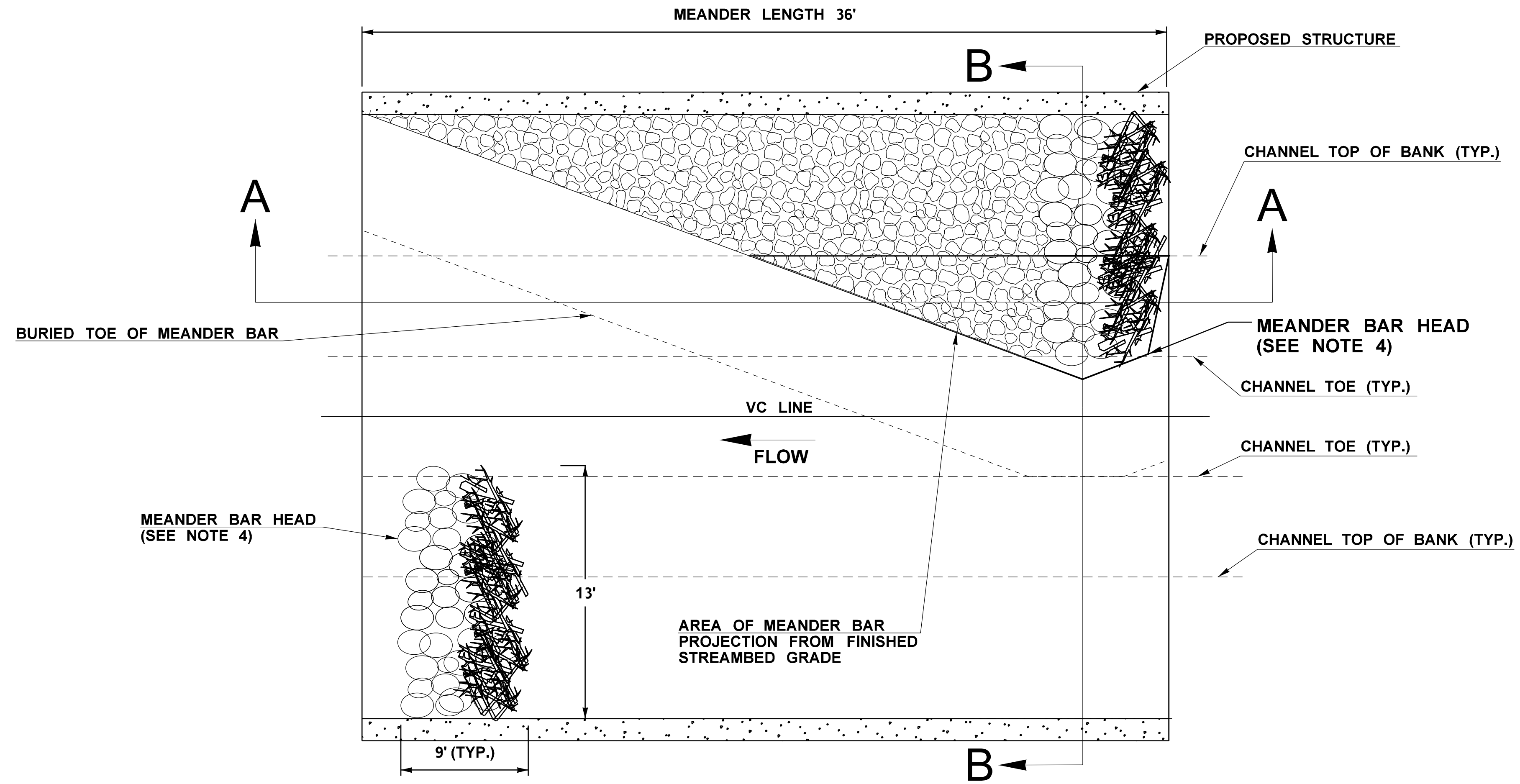
SHEET 39 OF 95 SHEETS

NOTES

1. UPSTREAM MEANDER BAR HEAD STARTS AT VC 57+76
2. DOWNSTREAM MEANDER BAR HEAD STARTS AT VC 57+54
3. SLASH SHALL BE INSTALLED WITH A VARIETY OF ORIENTATIONS THAT PROMOTE INTERWEAVING WITH EACH OTHER. VERTICAL AND DIAGONAL PIECES SHOULD BE PLACED TO EXTEND ABOVE THE STREAMBED MATERIAL 6 TO 8 INCHES TO INCREASE THE SURFACE ROUGHNESS. VOIDS TO BE FILLED WITH STREAMBED MATERIAL AND STREAMBED SAND.
4. SEE SPECIAL PROVISION "WATER CROSSINGS" FOR STREAMBED MATERIALS INCLUDING MEANDER BARS AND MATERIAL LIFTS.
5. QUANTITIES SHOWN IN MEANDER BAR TABLE ARE FOR BOTH UPSTREAM MEANDER BAR AND DOWNSTREAM MEANDER BAR HEAD.

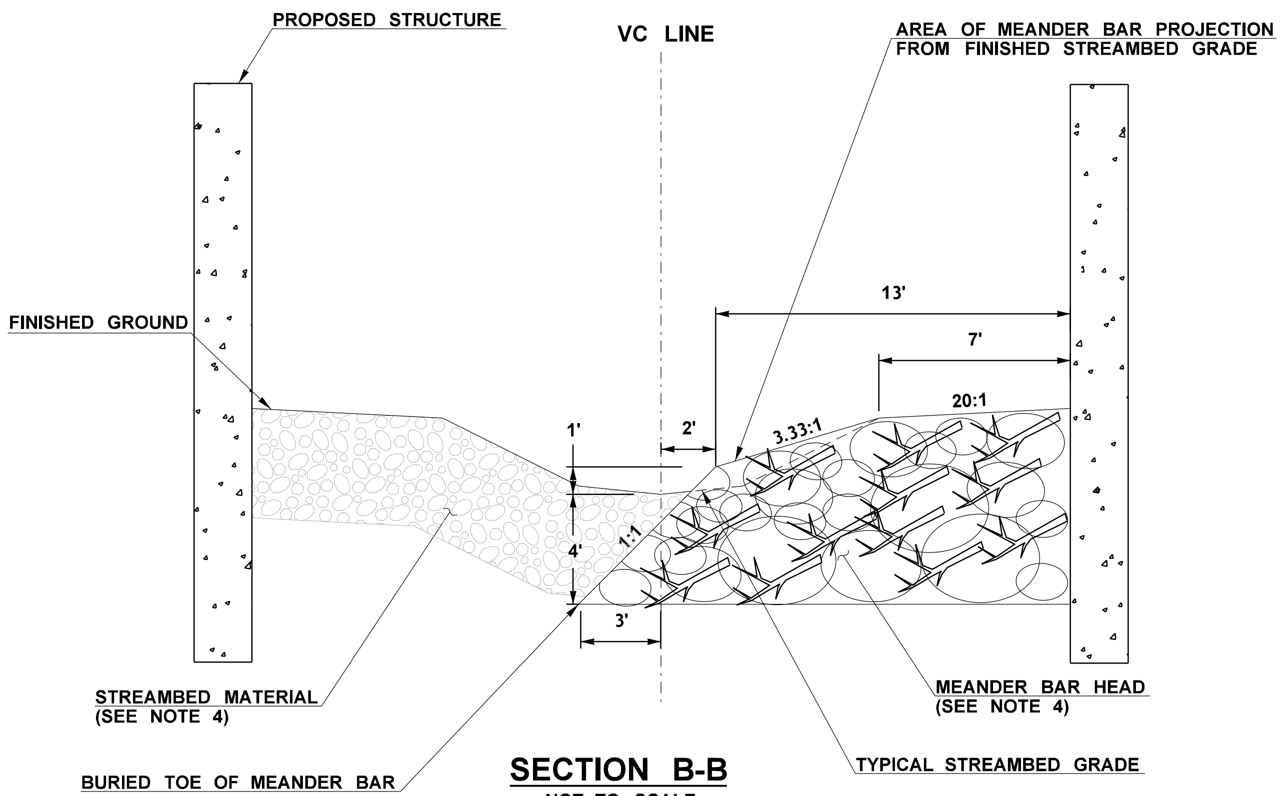
MEANDER BAR QUANTITY TABLE

ITEM	UNIT	QTY
STEAMBED SEDIMENT	TON	13
STEAMBED COBBLES 8 IN.	TON	27
STREAMBED BOULDER TYPE TWO	EA	192
SLASH	CY	20



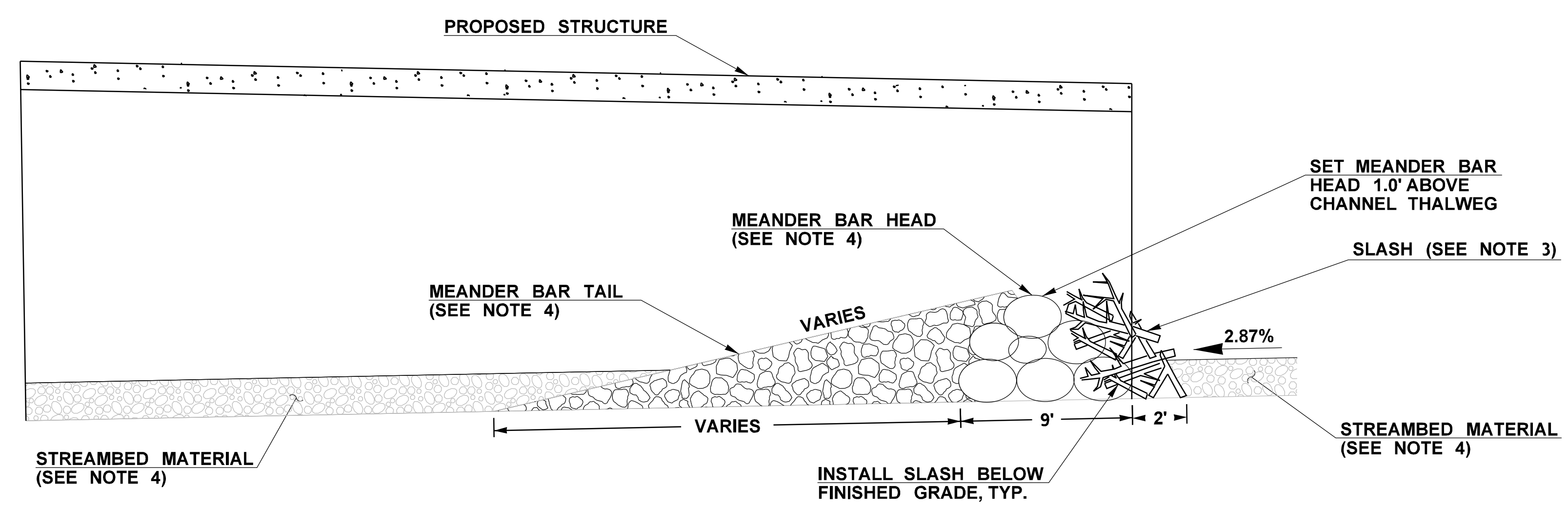
PLAN VIEW

NOT TO SCALE



SECTION B-B

NOT TO SCALE



SECTION A-A

NOT TO SCALE

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DATE	1/31/2024
PLOTTED BY	Cgb
DESIGNED BY	S. BEVAN
ENTERED BY	C. BOOTH
CHECKED BY	J. HEILMAN
PROJ. ENGR.	B. KRAMER
REGIONAL ADM.	S. ROARK

REVISION | DATE | BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER 23C508		
CONTRACT NO.		LOCATION NO. XL6186

JULIE HEILMAN STATE OF WASHINGTON 41819 REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1
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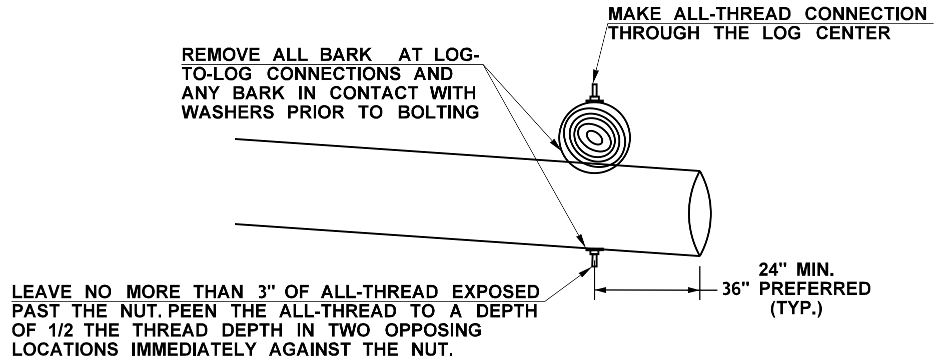
SR 302
VICTOR CREEK
REMOVE FISH BARRIER

STREAM DETAILS

PLAN REF NO CD2

SHEET 40 OF 95 SHEETS

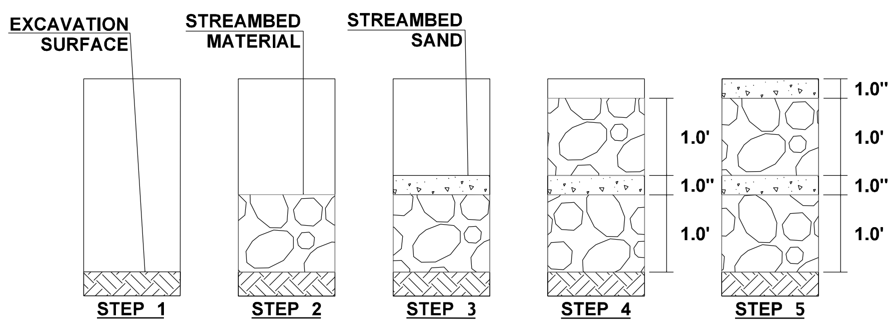


NOTES

1. LOG TO LOG CONNECTION CONSISTS OF ONE 1/2-INCH THREADED ROD, TWO 1/2-INCH THREADED NUTS, AND TWO WASHERS A MINIMUM OF 1-INCH OUTSIDE DIAMETER.

2. THE LENGTH OF THE THREADED ROD SHALL BE LONG ENOUGH TO GO THROUGH ALL LOGS PLUS SIX INCHES. THE LOGS BEING PINNED SHALL BE DRILLED USING A 3/4-INCH BIT.

LOG TO LOG CONNECTION DETAIL



STREAMBED CHANNEL PREPARATION

STEP 1
EXCAVATE CHANNEL TO ACCOMODATE STREAMBED MATERIAL.

STEP 2
PLACE 1.0' LIFT OF STREAMBED MATERIAL.

STEP 3
PLACE A LAYER OF STREAMBED SAND UNIFORMLY OVER STREAMBED MATERIAL. APPLY WATER TO STREAMBED SAND. SEE DETAIL NOTE 2.

STEP 4
(REPEAT STEP 2).

STEP 5
(REPEAT STEP 3). SEE NOTE 3.

NOTES

1. SLASH FROM TREES TO BE INCORPORATED INTO STREAMBED MIX (NOT SHOWN) WHERE INDICATED IN THE SPECIAL PROVISIONS AND AS DIRECTED BY THE ENGINEER.

2. APPLY WATER TO SAND LAYERS TO FACILITATE FILLING INTERSTITIAL VOIDS. SEE WSDOT STANDARD SPECIFICATION 8-30.3(3) AND SPECIAL PROVISIONS "WATER CROSSINGS" FOR MORE DETAILS.

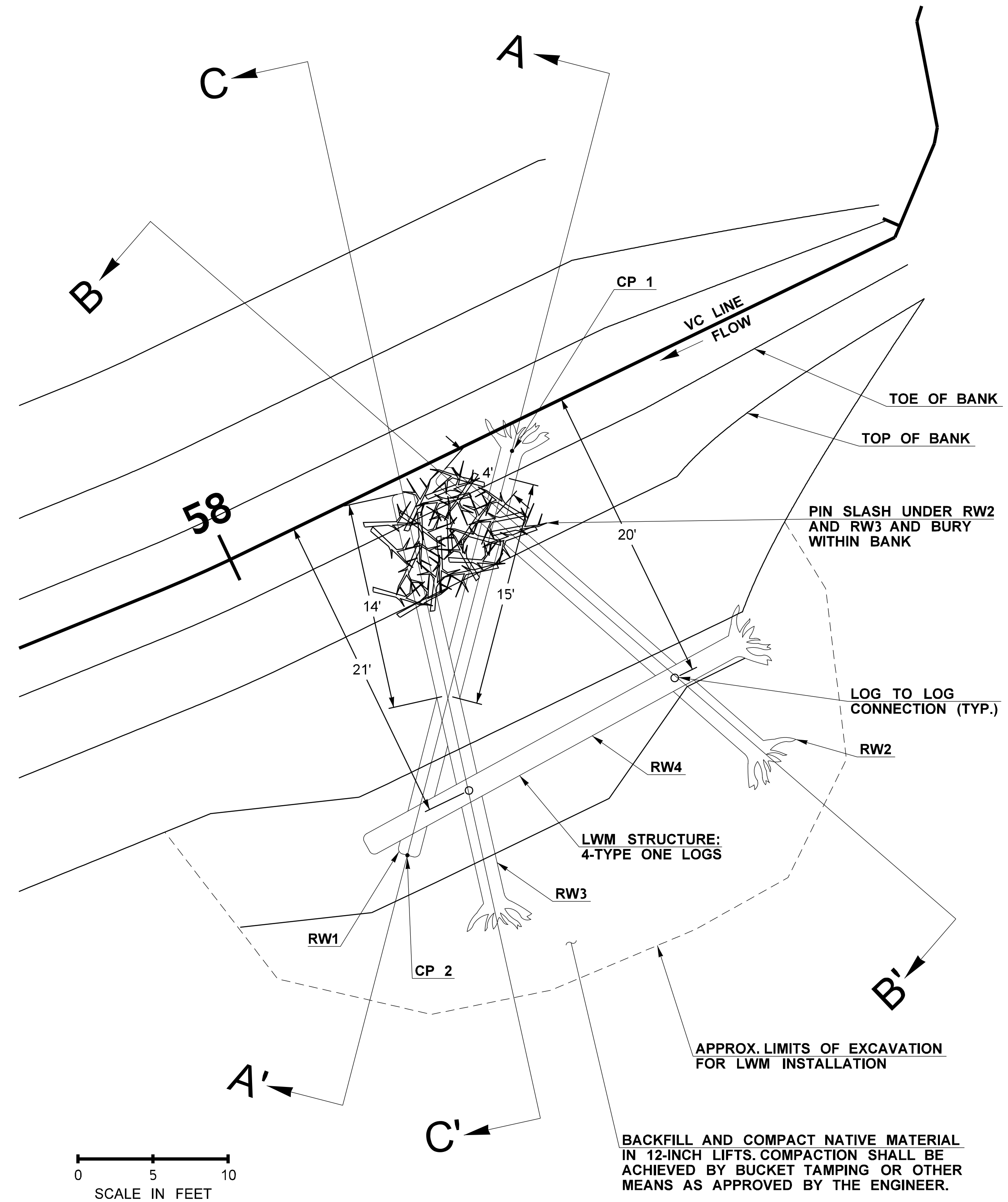
3. FOR AREAS OF STREAM CHANNEL THAT EXCEED 2' IN DEPTH, ADDITIONAL LAYERS MAY BE REQUIRED. REPEAT STEPS AS NECESSARY.

4. PLACEMENT SEQUENCE APPLIES TO STREAMBED MATERIAL AND MEANDER BAR TAIL.

5. MEANDER BAR HEADS SHALL BE PLACED FOLLOWING A SIMILAR SEQUENCE. MEANDER BAR HEAD SHALL BE PLACED IN LIFTS NOT TO EXCEED THE MAXIMUM DIAMETER OF THE LARGEST MATERIAL IN ITS CLASS. VOIDS OF THE MEANDER BAR HEAD SHALL BE FILLED WITH STREAMBED MATERIAL AND MEANDER BAR TAIL MATERIAL UP TO 2/3 BOULDER HEIGHT TO ALLOW FOR BOULDER TO BOULDER CONTACT BETWEEN LIFTS. 1-INCH OF STREAMBED SAND SHALL THEN BE PLACED AND APPLY WATER TO SEAL VOIDS. REPEAT PROCESS FOR ADDITIONAL LIFTS.

STREAMBED MATERIAL PLACEMENT SEQUENCE OF WORK

NOT TO SCALE



TYPICAL WOODY MATERIAL PLAN

NOTES

1. LOCATIONS AND ORIENTATION OF WOODY MATERIAL STRUCTURES AS SHOWN ON THIS SHEET ARE APPROXIMATE AND WILL BE STAKED BY THE ENGINEER.
2. SEE SPECIAL PROVISIONS "WOODY MATERIAL" FOR WOODY MATERIAL DETAILS.
3. TYPE ONE LOGS ARE 18" DIAMETER AND 30' LONG WITH ROOTWAD.
4. SEE SHEET CD4 FOR LWM SECTIONS A, B, AND C.

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TIME	9:41:03 AM			
DATE	1/31/2024			
PLOTTED BY	Cgb			
DESIGNED BY	S. BEVAN			
ENTERED BY	C. BOOTH			
CHECKED BY	J. HEILMAN			
PROJ. ENGR.	B. KRAMER			
REGIONAL ADM.	S. ROARK	REVISION	DATE	BY

REGION NO. 10 | STATE WASH | FED.AID PROJ.NO.

JOB NUMBER 23C508

CONTRACT NO. | LOCATION NO. XL6186

JULIE HEILMAN STATE OF WASHINGTON 41819 REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1
DATE
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REMOVE FISH BARRIER

STREAM DETAILS

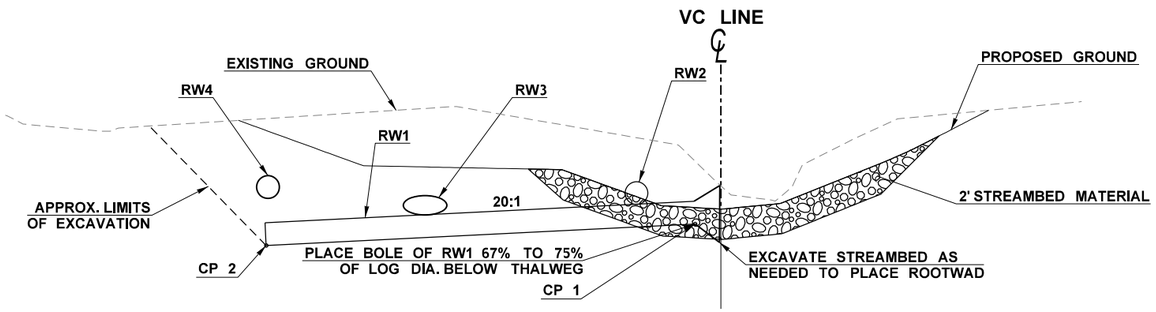
PLAN REF NO CD3

SHEET 41 OF 95 SHEETS

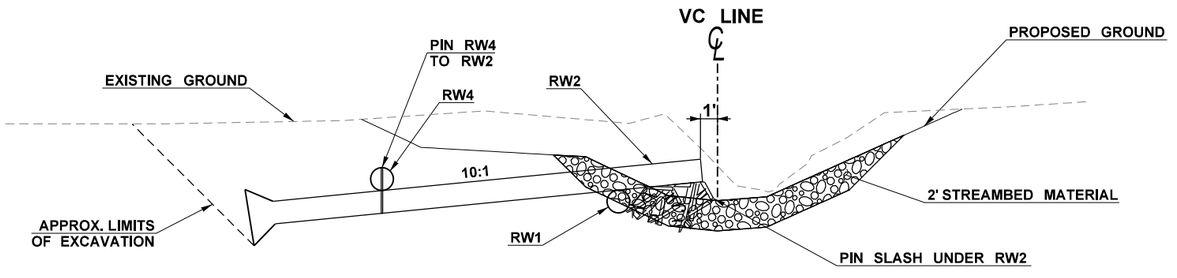
WOODY MATERIAL CONTROL POINT TABLE

WOODY MATERIAL STRUCTURE ID	CP	STA	OFFSET	ELEVATION
1	1	VC 58+20.0	RT 1.7'	25.6
1	2	VC 58+02.1	RT 22.9'	24.2
2	1	VC 57+21.6	RT 2.0'	22.7
2	2	VC 57+12.1	RT 27.0'	21.3

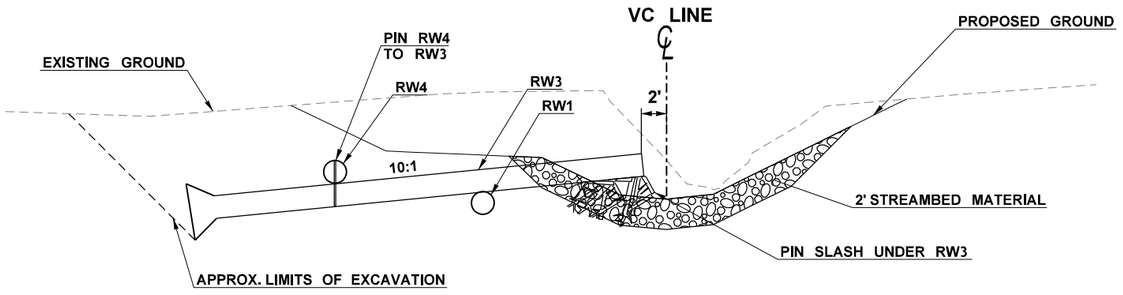
A. ELEVATIONS ARE IN FEET NAVD 88.



WOODY MATERIAL STRUCTURE: SECTION A'-A



WOODY MATERIAL STRUCTURE: SECTION B'-B



WOODY MATERIAL STRUCTURE: SECTION C'-C

NOTES

1. LOCATIONS AND ORIENTATION OF WOODY MATERIAL STRUCTURES AS SHOWN ON THIS SHEET ARE APPROXIMATE AND WILL BE STAKED BY THE ENGINEER.

2. SEE SPECIAL PROVISIONS "WOODY MATERIAL" FOR WOODY MATERIAL DETAILS.

3. SEE SHEET CD3 FOR LOCATIONS OF WOODY MATERIAL SECTIONS A, B, AND C.

4. SEE SHEET CR1 FOR CHANNEL GRADING AND OVERALL STREAM DESIGN.

0 5 10
SCALE IN FEET

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DATE	1/31/2024				JOB NUMBER		
PLOTTED BY	Cgb				23C508		
DESIGNED BY	S. BEVAN				CONTRACT NO.		LOCATION NO.
ENTERED BY	C. BOOTH						XL6186
CHECKED BY	J. HEILMAN						
PROJ. ENGR.	B. KRAMER						
REGIONAL ADM.	S. ROARK	REVISION	DATE	BY			

JULIE HEILMAN STATE OF WASHINGTON 41819 REGISTERED PROFESSIONAL ENGINEER
SEE SHEET CT1 DATE
P.E. STAMP BOX

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SR 302
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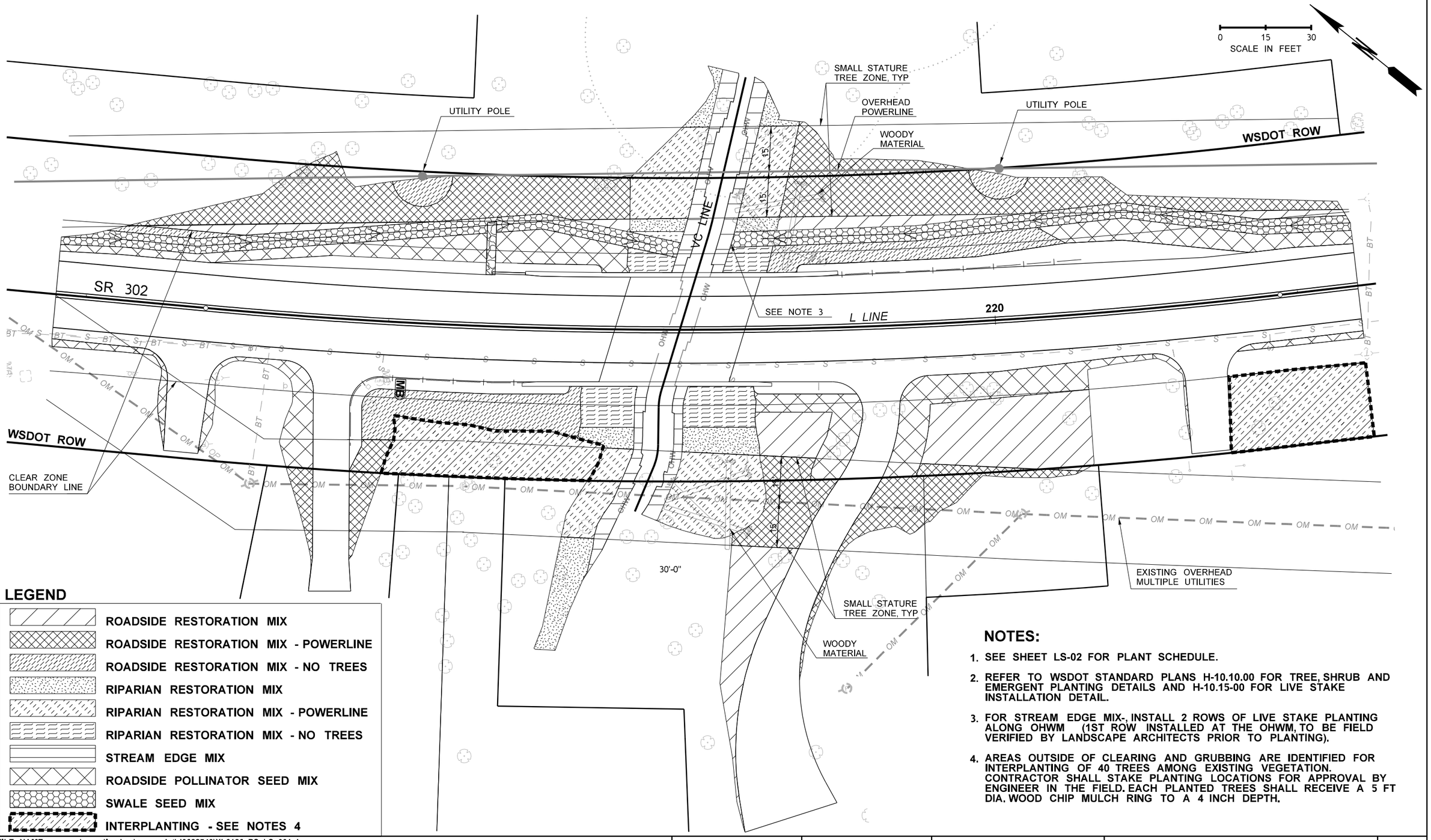
REMOVE FISH BARRIER

STREAM DETAILS

PLAN REF NO
CD4

SHEET 42 OF 95 SHEETS



LEGEND

- ROADSIDE RESTORATION MIX
- ROADSIDE RESTORATION MIX - POWERLINE
- ROADSIDE RESTORATION MIX - NO TREES
- RIPARIAN RESTORATION MIX
- RIPARIAN RESTORATION MIX - POWERLINE
- RIPARIAN RESTORATION MIX - NO TREES
- STREAM EDGE MIX
- ROADSIDE POLLINATOR SEED MIX
- SWALE SEED MIX
- INTERPLANTING - SEE NOTES 4

NOTES:

1. SEE SHEET LS-02 FOR PLANT SCHEDULE.
2. REFER TO WSDOT STANDARD PLANS H-10.10.00 FOR TREE, SHRUB AND EMERGENT PLANTING DETAILS AND H-10.15-00 FOR LIVE STAKE INSTALLATION DETAIL.
3. FOR STREAM EDGE MIX-, INSTALL 2 ROWS OF LIVE STAKE PLANTING ALONG OHWM (1ST ROW INSTALLED AT THE OHWM, TO BE FIELD VERIFIED BY LANDSCAPE ARCHITECTS PRIOR TO PLANTING).
4. AREAS OUTSIDE OF CLEARING AND GRUBBING ARE IDENTIFIED FOR INTERPLANTING OF 40 TREES AMONG EXISTING VEGETATION. CONTRACTOR SHALL STAKE PLANTING LOCATIONS FOR APPROVAL BY ENGINEER IN THE FIELD. EACH PLANTED TREES SHALL RECEIVE A 5 FT DIA. WOOD CHIP MULCH RING TO A 4 INCH DEPTH.

pw:\projectstore.wsdot.wa.gov:WSDOT\Documents_HQ\Fish Passage\ORproj\000\Y12554\Task Order AQ\700PROJTEC\709 LandscapeIXL6186_PS_LS_001.dgn

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DATE	2/2/2024				JOB NUMBER		
PLOTTED BY	LEMKEP				23C508		
DESIGNED BY	M. MACARTHUR				CONTRACT NO.		LOCATION NO.
ENTERED BY	P. LEMKE						XL6186
CHECKED BY	L. FRENCH						
PROJ. ENGR.	B. KRAMER						
REGIONAL ADM.	S. ROARK	REVISION	DATE	BY			

STATE OF WASHINGTON · LORCAN BRIAN FREMAN · REGISTERED LANDSCAPE ARCHITECT · REG. 1485 EXP. 12/03/2024

SEE SHEET CT1 FOR P.E. STAMP BOX

DATE

JACOBS

Washington State Department of Transportation

SR 302
VICTOR CREEK
REMOVE FISH BARRIER

LANDSCAPING PLAN

PLAN REF NO
LS1

SHEET
43
OF
95
SHEETS

GENERAL PLANTING AND SEEDING NOTES:

1. SEE STANDARD PLAN H10.10-00 FOR TREE AND SHRUB PLANTING DETAILS.
2. SEE STANDARD PLAN H10.15-10 FOR LIVE STAKE INSTALLATION DETAILS.
3. PLANT TREES AT INDICATED O.C. SPACING THROUGHOUT TOTAL PLANTING AREA.
4. SEE PLANTING AREA LAYOUT DETAIL ON SHEET LS-03 FOR PLANT SPACING. TYPICAL FOR ALL PLANTING AREAS.
5. SEE GROUNDCOVER PLANT LAYOUT DETAIL ON SHEET LS-03.
6. SEE SOIL PREPARATION DETAILS ON SHEET LS-03 FOR PLANTING AND SEEDING SOIL PREPARATION SEQUENCE OF WORK.
7. ALL PLANT MATERIAL SPECIFICATIONS FOR SIZE AND CONDITION SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF "AMERICAN STANDARDS FOR NURSERY STOCK".
8. ALL CONTAINERIZED PLANTS SHALL HAVE ROOT SYSTEMS WHICH FULLY FILL THE CONTAINER WITHOUT HAVING ROOTS THAT CIRCLE THE POT.
9. THE MULCH RING IN THE INTERPLANTED AREAS ARE INCLUDED IN THE PROJECT PLANTING AREA AND SHALL RECEIVE PLANTING AREA PREPARATION AND WEED CONTROL IN ACCORDANCE WITH SECTION 8-02 OF THE STANDARD SPECIFICATIONS.

PLANT SCHEDULE - ROADSIDE RESTORATION MIX

SYMBOL	TYPE	COMMON NAME	BOTANICAL NAME	SIZE	O.C. SPACING	RATE	QTY.	REMARKS
	TREE	DOUGLAS FIR	PSEUDOTSUGA MENZIESII	#2 CONT.	6'-0"	50%	47	NATURAL FORM, SINGLE LEADER.
	TREE	WESTERN RED CEDAR	THUJA PLICATA	#2 CONT.	6'-0"	50%	47	NATURAL FORM, SINGLE LEADER.
						100%		
	SHRUB	VINE MAPLE	ACER CIRCINATUM	#1 CONT.	4'-0"	10%	21	
	SHRUB	SERVICEBERRY	AMELANCHIER ALNIFOLIA	#1 CONT.	4'-0"	10%	21	
	SHRUB	OCEANSPRAY	HOLODISCUS DISCOLOR	#1 CONT.	4'-0"	5%	11	MIN. 3 STEMS
	SHRUB	TALL OREGON-GRAPE	MAHONIA AQUIFOLIUM	#1 CONT.	4'-0"	10%	21	MIN. 3 STEMS
	SHRUB	REDFLOWER CURRANT	RIBES SANGUINEUM	#1 CONT.	4'-0"	10%	21	MIN. 3 STEMS
	SHRUB	BALDHIP ROSE	ROSA GYMNOCARPA	#1 CONT.	4'-0"	10%	21	MIN. 3 CANES
	SHRUB	THIMBLEBERRY	RUBUS PARVIFLORUS	#1 CONT.	4'-0"	10%	21	MIN. 3 CANES
	SHRUB	SNOWBERRY	SYMPHORICARPOS ALBUS	#1 CONT.	4'-0"	15%	32	MIN. 3 CANES
	SHRUB	EVERGREEN HUCKLEBERRY	VACCINIUM OVATUM	#1 CONT.	4'-0"	10%	21	MIN. 3 STEMS
	GROUNDCOVER	SALAL	GAULTHERIA SHALLON	#1 CONT.	4'-0"	10%	63	SEE GROUNDCOVER LAYOUT SHEET LS3
						100%		

PLANT SCHEDULE - POWERLINE ROADSIDE RESTORATION MIX

SYMBOL	TYPE	COMMON NAME	BOTANICAL NAME	SIZE	O.C. SPACING	RATE	QTY.	REMARKS
	TREE	VINE MAPLE	ACER CIRCINATUM	#2 CONT.	6'-0"	33.3%	59	NATURAL FORM
	TREE	CASCARA	RHAMNUS PURSHIANA	#2 CONT	6'-0"	33.3%	59	NATURAL FORM
	TREE	PACIFIC CRABAPPLE	MALUS FUSCA	#2 CONT.	6'-0"	33.3%	59	NATURAL FORM
						100%		
	SHRUB	VINE MAPLE	ACER CIRCINATUM	#1 CONT	4'-0"	10%	40	
	SHRUB	SERVICEBERRY	AMELANCHIER ALNIFOLIA	#1 CONT.	4'-0"	10%	40	
	SHRUB	OCEANSPRAY	HOLODISCUS DISCOLOR	#1 CONT.	4'-0"	5%	20	MIN. 3 STEMS
	SHRUB	TALL OREGON-GRAPE	MAHONIA AQUIFOLIUM	#1 CONT.	4'-0"	15%	40	MIN. 3 STEMS
	SHRUB	REDFLOWER CURRANT	RIBES SANGUINEUM	#1 CONT.	4'-0"	10%	40	MIN. 3 STEMS
	SHRUB	BALDHIP ROSE	ROSA GYMNOCARPA	#1 CONT.	4'-0"	10%	40	MIN. 3 CANES
	SHRUB	THIMBLEBERRY	RUBUS PARVIFLORUS	#1 CONT.	4'-0"	10%	40	MIN. 3 CANES
	SHRUB	SNOWBERRY	SYMPHORICARPOS ALBUS	#1 CONT.	4'-0"	15%	60	MIN. 3 CANES
	SHRUB	EVERGREEN HUCKLEBERRY	VACCINIUM OVATUM	#1 CONT.	4'-0"	15%	40	MIN. 3 STEMS
	GROUNDCOVER	SALAL	GAULTHERIA SHALLON	#1 CONT.	4'-0"	10%	120	SEE GROUNDCOVER LAYOUT SHEET LS3
						100%		

PLANT SCHEDULE - ROADSIDE RESTORATION MIX - NO TREES

SYMBOL	TYPE	COMMON NAME	BOTANICAL NAME	SIZE	O.C. SPACING	RATE	QTY.	REMARKS
	SHRUB	VINE MAPLE	ACER CIRCINATUM	#1 CONT.	4'-0"	10%	13	
	SHRUB	SERVICEBERRY	AMELANCHIER ALNIFOLIA	#1 CONT.	4'-0"	10%	13	
	SHRUB	OCEANSPRAY	HOLODISCUS DISCOLOR	#1 CONT.	4'-0"	5%	7	MIN. 3 STEMS
	SHRUB	TALL OREGON-GRAPE	MAHONIA AQUIFOLIUM	#1 CONT.	4'-0"	10%	13	MIN. 3 STEMS
	SHRUB	REDFLOWER CURRANT	RIBES SANGUINEUM	#1 CONT.	4'-0"	10%	13	MIN. 3 STEMS
	SHRUB	BALDHIP ROSE	ROSA GYMNOCARPA	#1 CONT.	4'-0"	10%	13	MIN. 3 CANES
	SHRUB	THIMBLEBERRY	RUBUS PARVIFLORUS	#1 CONT.	4'-0"	10%	13	MIN. 3 CANES
	SHRUB	SNOWBERRY	SYMPHORICARPOS ALBUS	#1 CONT.	4'-0"	15%	20	MIN. 3 CANES
	SHRUB	EVERGREEN HUCKLEBERRY	VACCINIUM OVATUM	#1 CONT.	4'-0"	10%	13	MIN. 3 STEMS
	GROUNDCOVER	SALAL	GAULTHERIA SHALLON	#1 CONT.	4'-0"	10%	40	SEE GROUNDCOVER LAYOUT SHEET LS3
						100%		

PLANT SCHEDULE - RIPARIAN RESTORATION MIX

SYMBOL	TYPE	COMMON NAME	BOTANICAL NAME	SIZE	O.C. SPACING	RATE	QTY.	REMARKS
	TREE	SITKA SPRUCE	PICEA SITCHENSIS	#2 CONT.	6'-0"	50%	15	NATURAL FORM, SINGLE LEADER.
	TREE	WESTERN RED CEDAR	THUJA PLICATA	#2 CONT.	6'-0"	50%	15	NATURAL FORM, SINGLE LEADER.
						100%		
	SHRUB	REDOSIER DOGWOOD	CORNUS SERICEA	#1 CONT.	4'-0"	20%	14	MIN. 3 CANES
	SHRUB	BLACK TWINBERRY	LONICERA INVOLUCRATA	#1 CONT.	4'-0"	15%	10	MIN. 3 STEMS
	SHRUB	PACIFIC NINEBARK	PHYSOCARPUS CAPITATUS	#1 CONT.	4'-0"	15%	10	MIN. 3 STEMS
	SHRUB	SWAMP GOOSEBERRY	RIBES LACUSTRE	#1 CONT.	4'-0"	10%	7	MIN. 3 STEMS
	SHRUB	SALMONBERRY	RUBUS SPECTABILIS	#1 CONT.	4'-0"	15%	10	MIN. 3 CANES
	SHRUB	SNOWBERRY	SYMPHORICARPOS ALBUS	#1 CONT.	4'-0"	15%	10	MIN. 3 CANES
	EMERGENT	SLOUGH SEDGE	CAREX OPNUPTA	#1 CONT.	4'-0"	10%	20	SEE GROUNDCOVER LAYOUT SHEET LS3
						100%		

PLANT SCHEDULE - POWERLINE RIPARIAN RESTORATION MIX

SYMBOL	TYPE	COMMON NAME	BOTANICAL NAME	SIZE	O.C. SPACING	RATE	QTY.	REMARKS
	TREE	VINE MAPLE	ACER CIRCINATUM	#2 CONT.	6'-0"	33.3%	22	NATURAL FORM
	TREE	CASCARA	RHAMNUS PURSHIANA	#2 CONT	6'-0"	33.3%	22	NATURAL FORM
	TREE	PACIFIC CRABAPPLE	MALUS FUSCA	#2 CONT.	6'-0"	33.3%	22	NATURAL FORM
						100%		
	SHRUB	REDOSIER DOGWOOD	CORNUS SERICEA	#1 CONT.	4'-0"	20%	30	MIN. 3 STEMS
	SHRUB	BLACK TWINBERRY	LONICERA INVOLUCRATA	#1 CONT.	4'-0"	15%	22	MIN. 3 STEMS
	SHRUB	PACIFIC NINEBARK	PHYSOCARPUS CAPITATUS	#1 CONT.	4'-0"	15%	22	MIN. 3 STEMS
	SHRUB	SWAMP GOOSEBERRY	RIBES LACUSTRE	#1 CONT.	4'-0"	10%	15	MIN. 3 CANES
	SHRUB	SALMONBERRY	RUBUS SPECTABILIS	#1 CONT.	4'-0"	15%	22	MIN. 3 CANES
	SHRUB	SNOWBERRY	SYMPHORICARPOS ALBUS	#1 CONT.	4'-0"	15%	22	FULL CONTAINER
	EMERGENT	SLOUGH SEDGE	CAREX OPNUPTA	#1 CONT.	4'-0"	10%	44	SEE GROUNDCOVER LAYOUT SHEET LS3
						100%		

PLANT SCHEDULE - RIPARIAN RESTORATION MIX - NO TREES

SYMBOL	TYPE	COMMON NAME	BOTANICAL NAME	SIZE	O.C. SPACING	RATE	QTY.	REMARKS
	SHRUB	REDOSIER DOGWOOD	CORNUS SERICEA	#1 CONT.	4'-0"	20%	12	MIN. 3 STEMS
	SHRUB	BLACK TWINBERRY	LONICERA INVOLUCRATA	#1 CONT.	4'-0"	15%	9	MIN. 3 STEMS
	SHRUB	PACIFIC NINEBARK	PHYSOCARPUS CAPITATUS	#1 CONT.	4'-0"	15%	9	MIN. 3 STEMS
	SHRUB	SWAMP GOOSEBERRY	RIBES LACUSTRE	#1 CONT.	4'-0"	10%	6	MIN. 3 CANES
	SHRUB	SALMONBERRY	RUBUS SPECTABILIS	#1 CONT.	4'-0"	15%	9	MIN. 3 CANES
	SHRUB	SNOWBERRY	SYMPHORICARPOS ALBUS	#1 CONT.	4'-0"	15%	9	FULL CONTAINER
	EMERGENT	SLOUGH SEDGE	CAREX OPNUPTA	#1 CONT.	4'-0"	10%	18	SEE GROUNDCOVER LAYOUT SHEET LS3
						100%		

PLANT SCHEDULE - STREAM EDGE MIX

SYMBOL	TYPE	COMMON NAME	BOTANICAL NAME	O.C. SPACING	RATE	QTY.	REMARKS
	LIVE STAKE	HOOKER'S WILLOW	SALIX HOOKERIANA	3'-0"	20%	24	36" LENGTH, 1/2" MIN. DIA - THREE STEM MIN.
	LIVE STAKE	PACIFIC WILLOW	SALIX LUCIDA SSP. LASIANDRA	3'-0"	20%	24	36" LENGTH, 1/2" MIN. DIA - THREE STEM MIN.
	LIVE STAKE	MACKENZIE'S WILLOW	SALIX PROLIXA	3'-0"	20%	24	36" LENGTH, 1/2" MIN. DIA - THREE STEM MIN.
	LIVE STAKE	STIKA WILLOW	SALIX SITCHENSIS	3'-0"	20%	24	36" LENGTH, 1/2" MIN. DIA - THREE STEM MIN.
	LIVE STAKE	SCOULER'S WILLOW	SALIX SCOULERIANA	3'-0"	20%	24	36" LENGTH, 1/2" MIN. DIA - THREE STEM MIN.
					100%		

PLANT SCHEDULE - INTERPLANTING

SYMBOL	TYPE	COMMON NAME	BOTANICAL NAME	SIZE	O.C. SPACING	RATE	QTY.	REMARKS
	TREE	WESTERN HEMLOCK	TSUGA HETEROPHYLLA	#2 CONT.	APPROX. 8'*	40%	16	NATURAL FORM, SINGLE LEADER.
	TREE	WESTERN RED CEDAR	THUJA PLICATA	#2 CONT.	APPROX. 8'*	30%	12	NATURAL FORM, SINGLE LEADER.
	TREE	CASCARA (UNDER POWERLINE ONLY)	RHAMNUS PURSHIANA	#2 CONT.	APPROX. 8'*	30%	12	NATURAL FORM
						100%		

* STAKED LOCATION TO BE APPROVED BY ENGINEER.

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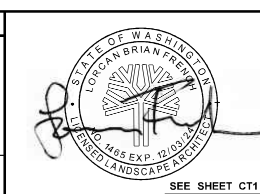
DESIGNED BY	M. MACARTHUR				23C508		
ENTERED BY	P. LEMKE				CONTRACT NO.		LOCATION NO.
CHECKED BY	L. FRENCH						XL6186
PROJ. ENGR.	B. KRAMER						
REGIONAL ADM.	S. ROARK	REVISION	DATE	BY			



SEE SHEET CT1
DATE
P.E. STAMP BOX

JACOBS

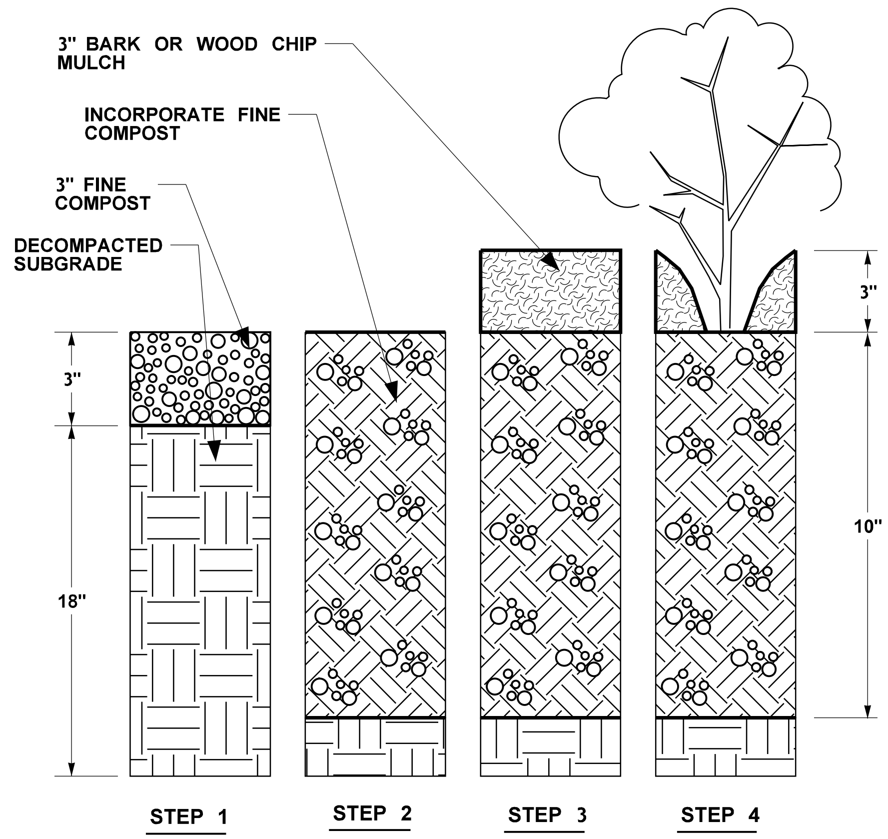
Washington State Department of Transportation

SR 302
VICTOR CREEK
REMOVE FISH BARRIER

LANDSCAPE PLANT SCHEDULE & NOTES

PLAN REF NO LS2

SHEET 44 OF 95 SHEETS



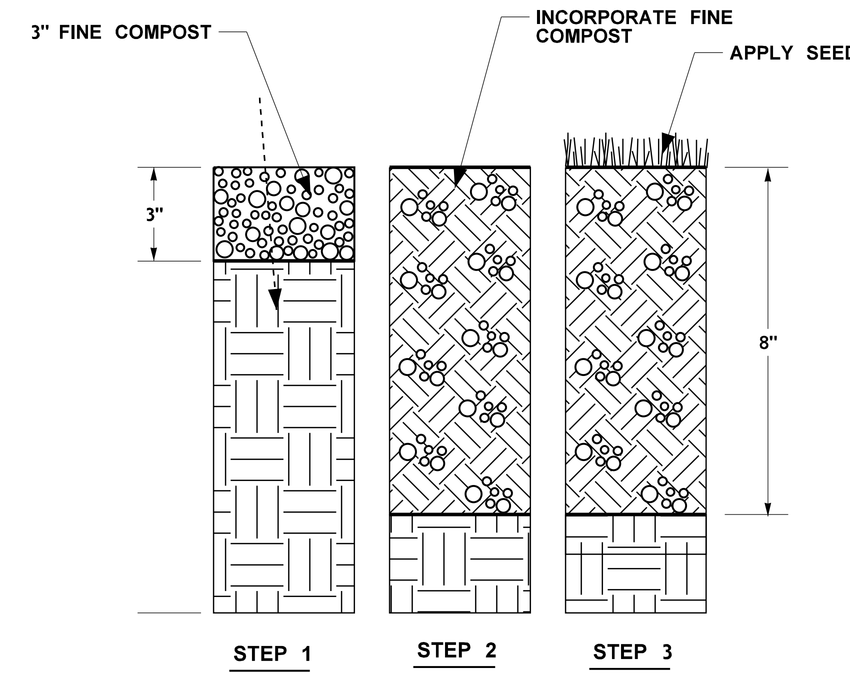
PLANTING AREA PREPARATION
(SEE SECTION 8-02.3(5) IN THE SPECIAL PROVISIONS)

STEP 1	DECOMPACTED SUBGRADE TO AN 18" DEPTH AND PLACE 3" FINE COMPOST
STEP 2	INCORPORATE FINE COMPOST TO 10" DEPTH ACCORDING TO SECTION 8-02.3(6), SOIL AMENDMENT, IN THE SPECIAL PROVISIONS
STEP 3	IN PLANTING AREAS WITH WOODY PLANTS, INSTALL BARK OR WOOD CHIP MULCH 3" DEEP.
STEP 4	INSTALL PLANTS ACCORDING TO STANDARD PLAN H-10-10.00

PLANTING AREA SOIL PREPARATION

SECTION VIEW

NOT TO SCALE



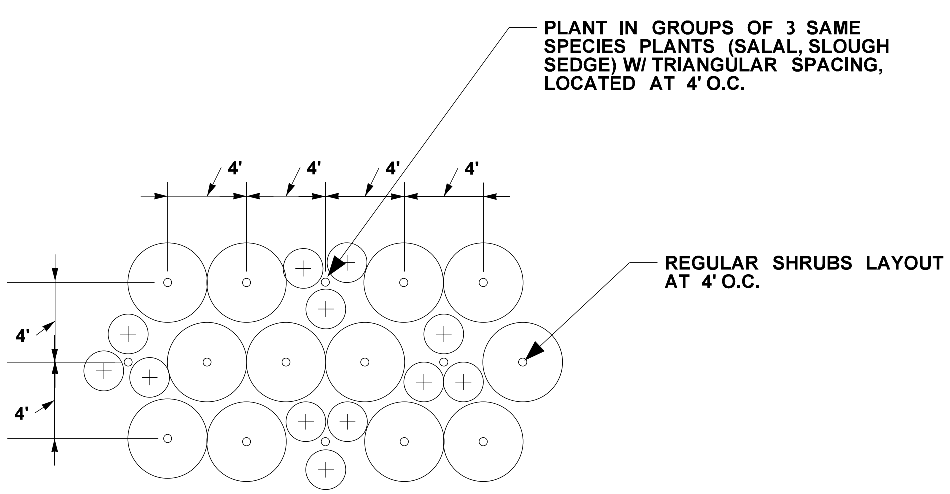
SEEDING AREA PREPARATION
(SEE SECTION 8-02.3(5) IN THE SPECIAL PROVISIONS)

STEP 1	PLACE 3" FINE COMPOST
STEP 2	INCORPORATE COMPOST TO 8" DEPTH ACCORDING TO SECTION 8-02.3(6), SOIL AMENDMENT, IN THE SPECIAL PROVISIONS
STEP 3	INSTALL SEEDING, FERTILIZING AND MULCHING ACCORDING TO THE PLANS AND SPECIAL PROVISIONS.

SEEDING AREA SOIL PREPARATION

SECTION VIEW

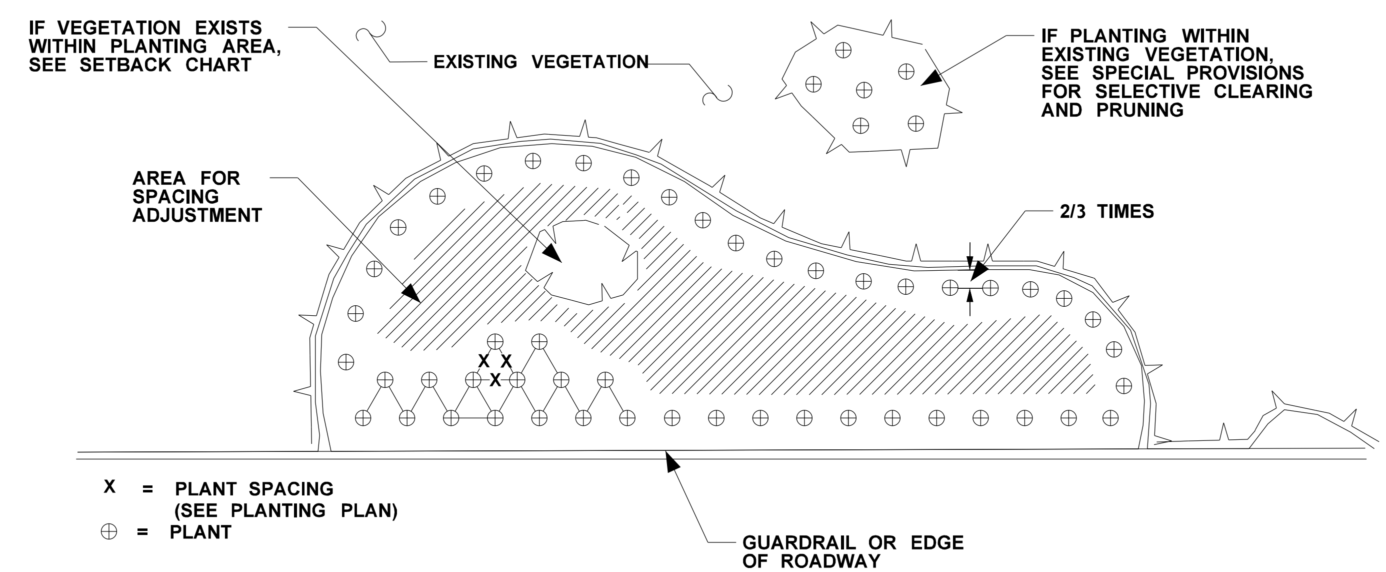
NOT TO SCALE



GROUNDCOVER PLANT LAYOUT

PLAN VIEW

NOT TO SCALE



X = PLANT SPACING (SEE PLANTING PLAN)
⊕ = PLANT

PLANTING AREA LAYOUT

PLAN VIEW

NOT TO SCALE

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DATE	2/2/2024			
PLOTTED BY	LEMKEP			
DESIGNED BY	M. MACARTHUR			
ENTERED BY	P. LEMKE			
CHECKED BY	L. FRENCH			
PROJ. ENGR.	B. KRAMER			
REGIONAL ADM.	S. ROARK	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER 23C508		
CONTRACT NO.		LOCATION NO. XL6186

STATE OF WASHINGTON LORCAN BRIAN FRENCH LICENSED LANDSCAPE ARCHITECT NO. 1465 EXP. 12/03/24
SEE SHEET CT1
DATE
P.E. STAMP BOX

JACOBS

Washington State Department of Transportation

SR 302
VICTOR CREEK
REMOVE FISH BARRIER

LANDSCAPE DETAILS

PLAN REF NO LS3

SHEET 45 OF 95 SHEETS

QUANTITY TABULATION - PAVING AND PAVEMENT MARKING

NOTE:
THE FIRST NUMBER OF THE "CODE" BELOW REFERS TO THE SHEET NO. OR THE SHEET REFERENCE NO. SHOWING THE CONSTRUCTION FEATURE

THE SECOND NUMBER REFERS TO THE CONSTRUCTION FEATURE FOUND ON THAT SHEET.

CODE	LOCATION ↓ / UNIT OF MEASURE →		BEAM GUARDRAIL TYPE 31 L.F.	BEAM GUARDRAIL TRANSITION SECTION TYPE 24 EACH	BEAM GUARDRAIL TYPE 31 NON-FLARED TERMINAL EACH	BEAM GUARDRAIL TYPE 11 ANCHOR EACH	EXTRUDED CURB LF	PLASTIC LINE EACH	CENTERLINE RUMBLE STRIP MILE	RAISED PAVEMENT MARKER TYPE 2 HUND	MAILBOX SUPPORT TYPE 2 EACH	FLEXIBLE GUIDEPOST EACH	BARRIER DELINIATOR EACH				GENERAL NOTES
PV1-1	L 216+90.00 to L 221+20.00							860	0.08	0.1		12	2				8, 9
PV1-2	L 217+90.39 (37.37' RT.) to L 218+49.41 (17.79' RT.)		37.5	1		1											1,2,3,4,5,6
PV1-3	L 219+43.62 (16.69' LT.) to L 220+20.00 (15.00' LT.)		25	1	1												1,2,3,4,5,6
PV1-4	L 216+90.00 (11' LT.) to L 221+20.00 (11' LT.)							430									9
PV1-5	L 216+90.00 (11' RT.) to L 221+20.00 (11' RT.)							430									9
PV1-6	L 218+33.57 (17.33' LT) to L 218+44.46 (17.33' LT)						11										7
PV1-7	L 218+05.00 (22' RT)										1						
	SHEET TOTAL		62.5	2	1	1	11	1720	0.08	0.10	1	12	2				
	PROJECT TOTAL		62.5	2	1	1	11	1720	0.08	0.10	1	12	2				

GENERAL NOTES

1. SEE STD C-24.10, GUARDRAIL CONNECTION TO BRIDGE RAIL OR CONCRETE BARRIER, D CONNECTION.
2. SEE STD. PLAN C-22.45, BEAM GUARDRAIL TYPE 31 NON-FLARED TERMINAL (POSTED SPEED 45 MPH AND BELOW)
3. BEAM GUARDRAIL (TYPE 31) TRANSITION SECTION TYPE 24 (POSTED SPEED 45 MPH AND BELOW)
4. SEE STD. PLAN C-1b, POSTS AND BLOCKS.
5. SEE STD. PLAN C-7a, THRIE BEAM END SECTIONS, DESIGN F.
6. SEE STD, PLAN C-20.10, BEAM GUARDRAIL TYPE 31.
7. SEE STD, F-10.42 FOR EXTRUDED CURB.
8. SEE STD, M-65.10 FOR CENTERLINE RUMBLE STRIP.
9. TYPES A, B, C, OR D PLASTIC LINE IS ADEQUATE

Designed	P. LEMKE	REGION NO.	STATE
Entered	P. LEMKE	10	WASH
Checked	P. COOPER	JOB NUMBER	
Proj.Eng.	B. KRAMER	23C508	
Reg Admin	S. ROARK	CONTRACT NO.	

REVISION	DATE	BY

FED. AID PROJ. NO.

LOCATION NO. XL6186

JACOBS

Washington State Department of Transportation

SR 302
VICTOR CREEK
REMOVE FISH BARRIER

QUANTITY TABULATION - PAVING AND PAVEMENT MARKING

QTPV1

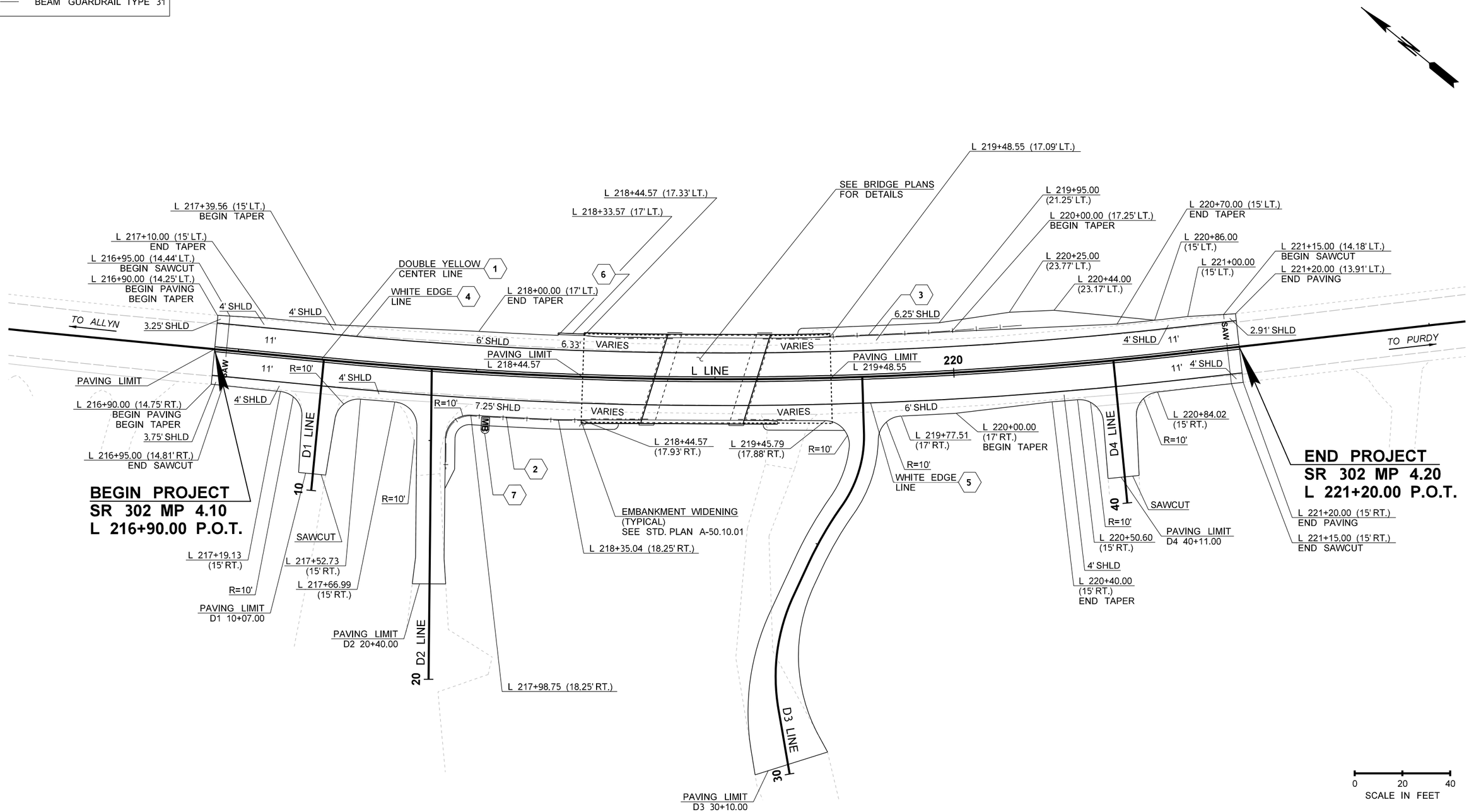
SHEET 46 OF 95 SHEETS

LEGEND

QUANTITY TAB NOTE

BEAM GUARDRAIL TYPE 31

T.22N. R.1W. W.M.



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PLOTTED BY	LEMKEP				23C508		
DESIGNED BY	P. LEMKE				CONTRACT NO.		LOCATION NO.
ENTERED BY	P. LEMKE						XL6186
CHECKED BY	P. COOPER						
PROJ. ENGR.	B. KRAMER						
REGIONAL ADM.	S. ROARK	REVISION	DATE	BY			

ANDREW D. BARRON STATE OF WASHINGTON 23981 REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1 DATE

P.E. STAMP BOX

JACOBS

Washington State Department of Transportation

SR 302
VICTOR CREEK
REMOVE FISH BARRIER

PAVING AND PAVEMENT MARKING PLAN

PLAN REF NO PV1

SHEET 47 OF 95 SHEETS

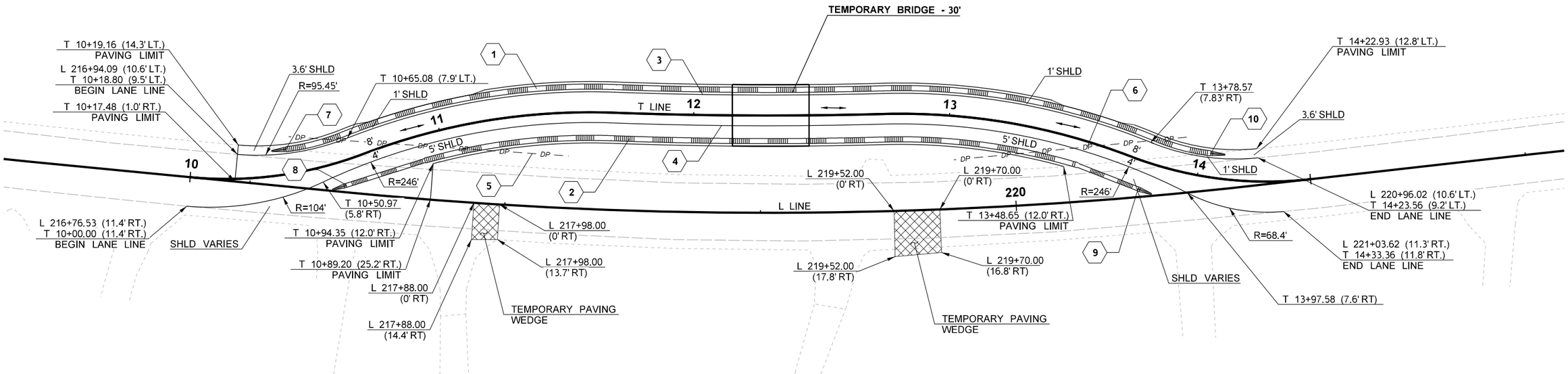
LEGEND

- (#) QUANTITY TAB NOTE
- TEMPORARY BARRIER
- DP — — DP PLAIN CONC. STORM SEWER
- PLAIN CONC. STORM SEWER

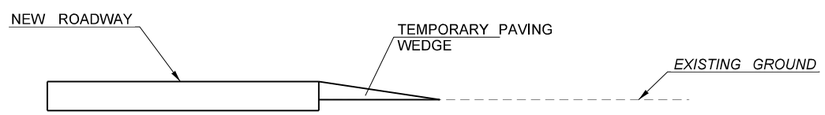
T.22N. R.1W. W.M.

NOTES:

1. SEE TEMPORARY ROADWAY SECTIONS FOR SURFACING DETAILS AND PAVING DEPTHS.
2. SEE SHEET AL-1 FOR ALIGNMENT DETAILS NOT SHOWN.
3. ALL PAVEMENT MARKINGS SHALL BE PREFORMED REMOVABLE TAPE.



XX	QUANTITY	BEGIN STA	END STA	NOTES
1	TEMPORARY BARRIER	T 10+39.17 (9.7' LT.)	T 14+03.83 (9.3' LT.)	PINNED BARRIER
2	TEMPORARY BARRIER	T 10+58.91 (9.5' RT.)	T 13+79.57 (11.0' RT.)	PINNED BARRIER
3	TEMPORARY PAVEMENT MARKING-LONG DURATION	T 10+18.24 (8.3' LT.)	T 14+23.56 (9.2' LT.)	WHITE EDGE LANE LINE
4	TEMPORARY PAVEMENT MARKING-LONG DURATION	T 10+00.00 (11.4' RT.)	T 14+33.36 (11.8' RT.)	WHITE EDGE LANE LINE
5	15 IN CONC STORM SEWER	T 10+41.21 (14.4 LT.)	T 11+50.56 (16.9' RT.)	
6	12 IN CONC STORM SEWER	T 13+03.21 (17.1' RT.)	T 13+93.87 (14.1 LT.)	
7	TEMPORARY IMPACT ATTINUATOR	T 10+39.17 (9.7' LT.)		
8	TEMPORARY IMPACT ATTINUATOR	T 10+58.91 (9.5' RT.)		
9	TEMPORARY IMPACT ATTINUATOR	T 13+79.57 (11.0' RT.)		
10	TEMPORARY IMPACT ATTINUATOR	T 14+03.83 (9.3' LT.)		



TEMPORARY PAVING WEDGE DETAIL

0 20 40
SCALE IN FEET

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DATE	1/31/2024						
PLOTTED BY	LEMKEP				JOB NUMBER 23C508		
DESIGNED BY	P. LEMKE						
ENTERED BY	P. LEMKE				CONTRACT NO.	LOCATION NO. XL6186	
CHECKED BY	P. COOPER						
PROJ. ENGR.	B. KRAMER						
REGIONAL ADM.	S. ROARK	REVISION	DATE	BY			

ANDREW D. BYRD — STATE OF WASHINGTON — 19983 — REGISTERED PROFESSIONAL ENGINEER
SEE SHEET CT1 FOR P.E. STAMP BOX
DATE

JACOBS

Washington State Department of Transportation

SR 302
VICTOR CREEK
REMOVE FISH BARRIER

TEMPORARY PAVING PLAN

PLAN REF NO TPV1

SHEET 48 OF 95 SHEETS

ILLUMINATION LEGEND

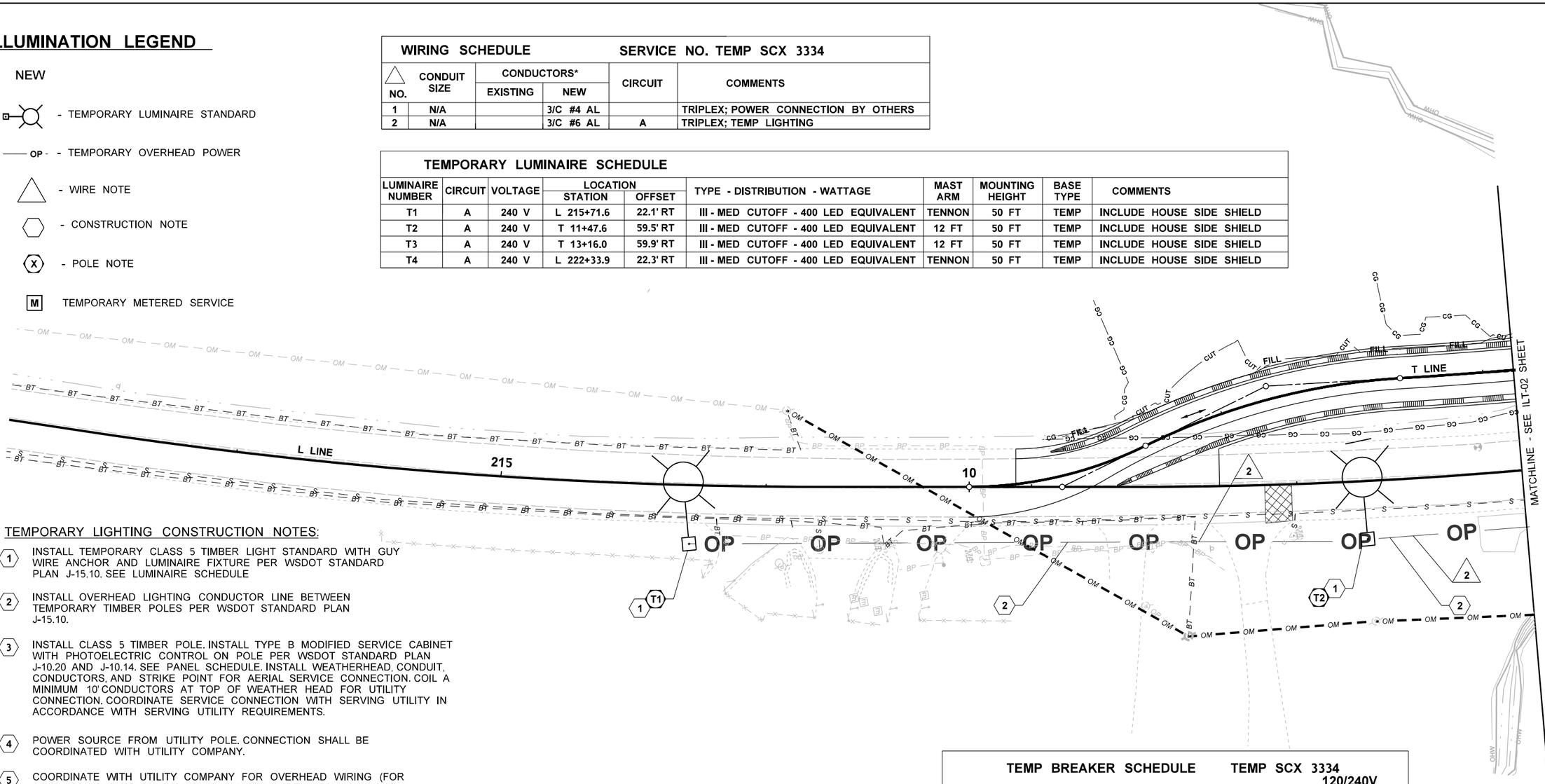
NEW

- TEMPORARY LUMINAIRE STANDARD
- OP —— OP - TEMPORARY OVERHEAD POWER
- WIRE NOTE
- CONSTRUCTION NOTE
- (X) - POLE NOTE
- [M] TEMPORARY METERED SERVICE

WIRING SCHEDULE		SERVICE NO. TEMP SCX 3334			
△ NO.	CONDUIT SIZE	CONDUCTORS* EXISTING	CONDUCTORS* NEW	CIRCUIT	COMMENTS
1	N/A		3/C #4 AL		TRIPLEX; POWER CONNECTION BY OTHERS
2	N/A		3/C #6 AL	A	TRIPLEX; TEMP LIGHTING

TEMPORARY LUMINAIRE SCHEDULE

LUMINAIRE NUMBER	CIRCUIT	VOLTAGE	LOCATION STATION	LOCATION OFFSET	TYPE - DISTRIBUTION - WATTAGE	MAST ARM	MOUNTING HEIGHT	BASE TYPE	COMMENTS
T1	A	240 V	L 215+71.6	22.1' RT	III - MED CUTOFF - 400 LED EQUIVALENT	TENNON	50 FT	TEMP	INCLUDE HOUSE SIDE SHIELD
T2	A	240 V	T 11+47.6	59.5' RT	III - MED CUTOFF - 400 LED EQUIVALENT	12 FT	50 FT	TEMP	INCLUDE HOUSE SIDE SHIELD
T3	A	240 V	T 13+16.0	59.9' RT	III - MED CUTOFF - 400 LED EQUIVALENT	12 FT	50 FT	TEMP	INCLUDE HOUSE SIDE SHIELD
T4	A	240 V	L 222+33.9	22.3' RT	III - MED CUTOFF - 400 LED EQUIVALENT	TENNON	50 FT	TEMP	INCLUDE HOUSE SIDE SHIELD



TEMPORARY LIGHTING CONSTRUCTION NOTES:

1. INSTALL TEMPORARY CLASS 5 TIMBER LIGHT STANDARD WITH GUY WIRE ANCHOR AND LUMINAIRE FIXTURE PER WSDOT STANDARD PLAN J-15.10. SEE LUMINAIRE SCHEDULE
2. INSTALL OVERHEAD LIGHTING CONDUCTOR LINE BETWEEN TEMPORARY TIMBER POLES PER WSDOT STANDARD PLAN J-15.10.
3. INSTALL CLASS 5 TIMBER POLE. INSTALL TYPE B MODIFIED SERVICE CABINET WITH PHOTOELECTRIC CONTROL ON POLE PER WSDOT STANDARD PLAN J-10.20 AND J-10.14. SEE PANEL SCHEDULE. INSTALL WEATHERHEAD, CONDUIT, CONDUCTORS, AND STRIKE POINT FOR AERIAL SERVICE CONNECTION. COIL A MINIMUM 10' CONDUCTORS AT TOP OF WEATHER HEAD FOR UTILITY CONNECTION. COORDINATE SERVICE CONNECTION WITH SERVING UTILITY IN ACCORDANCE WITH SERVING UTILITY REQUIREMENTS.
4. POWER SOURCE FROM UTILITY POLE. CONNECTION SHALL BE COORDINATED WITH UTILITY COMPANY.
5. COORDINATE WITH UTILITY COMPANY FOR OVERHEAD WIRING (FOR TEMP LIGHTING) TO BE INSTALLED BY THE UTILITY COMPANY. SEE WIRING SCHEDULE FOR WIRE SIZE UNLESS OTHERWISE DIRECTED BY THE SERVING UTILITY

GENERAL NOTES

1. LIGHTING MOUNTED ON TEMPORARY TIMBER POLES TO BE INSTALLED AND OPERATIONAL PRIOR TO SIGNAL OPERATIONS, AND REMOVED AFTER SIGNAL OPERATIONS ARE NO LONGER NEEDED.
2. AERIAL WIRING SHALL MAINTAIN 10-FEET CLEARANCE FROM CONSTRUCTION EQUIPMENT AND OTHER OBJECTS. TRIM TREES AS NEEDED PER ENGINEERS APPROVAL.

TEMP BREAKER SCHEDULE TEMP SCX 3334 120/240V

CIRCUIT	DESCRIPTION	BREAKER RATING	CONTACTOR RATING	VOLTAGE	LOAD (KVA)
---	MAIN	60 AMP	---	---	---
A	ILLUMINATION A	20 AMP	30 AMP	240	1.07
B	SPARE	20 AMP	N/A		
C	SPARE	20 AMP	N/A		
D	SPARE	20 AMP	N/A		
E	PHOTOCELL	15 AMP	N/A	120	0.01
F	GFCI	20 AMP	N/A	120	1.8
BUSSWORK SHALL BE RATED AT 100 AMP MINIMUM			PEAK		3.13
			CONTINUOUS		2.87

0 20 40
SCALE IN FEET

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DATE	2/6/2024				JOB NUMBER 23C508		
PLOTTED BY	SlaterJ						
DESIGNED BY	D. BAILEY				CONTRACT NO.		LOCATION NO. XL6186
ENTERED BY	D. BAILEY						
CHECKED BY	A. MUDIGONDA						
PROJ. ENGR.	B. KRAMER						
REGIONAL ADM.	S. ROARK	REVISION	DATE	BY			

ANIL P. MUDIGONDA — STATE OF WASHINGTON — 31435 — REGISTERED PROFESSIONAL ENGINEER
SEE SHEET CT1 DATE
P.E. STAMP BOX

JACOBS

Washington State Department of Transportation

SR 302
VICTOR CREEK
REMOVE FISH BARRIER

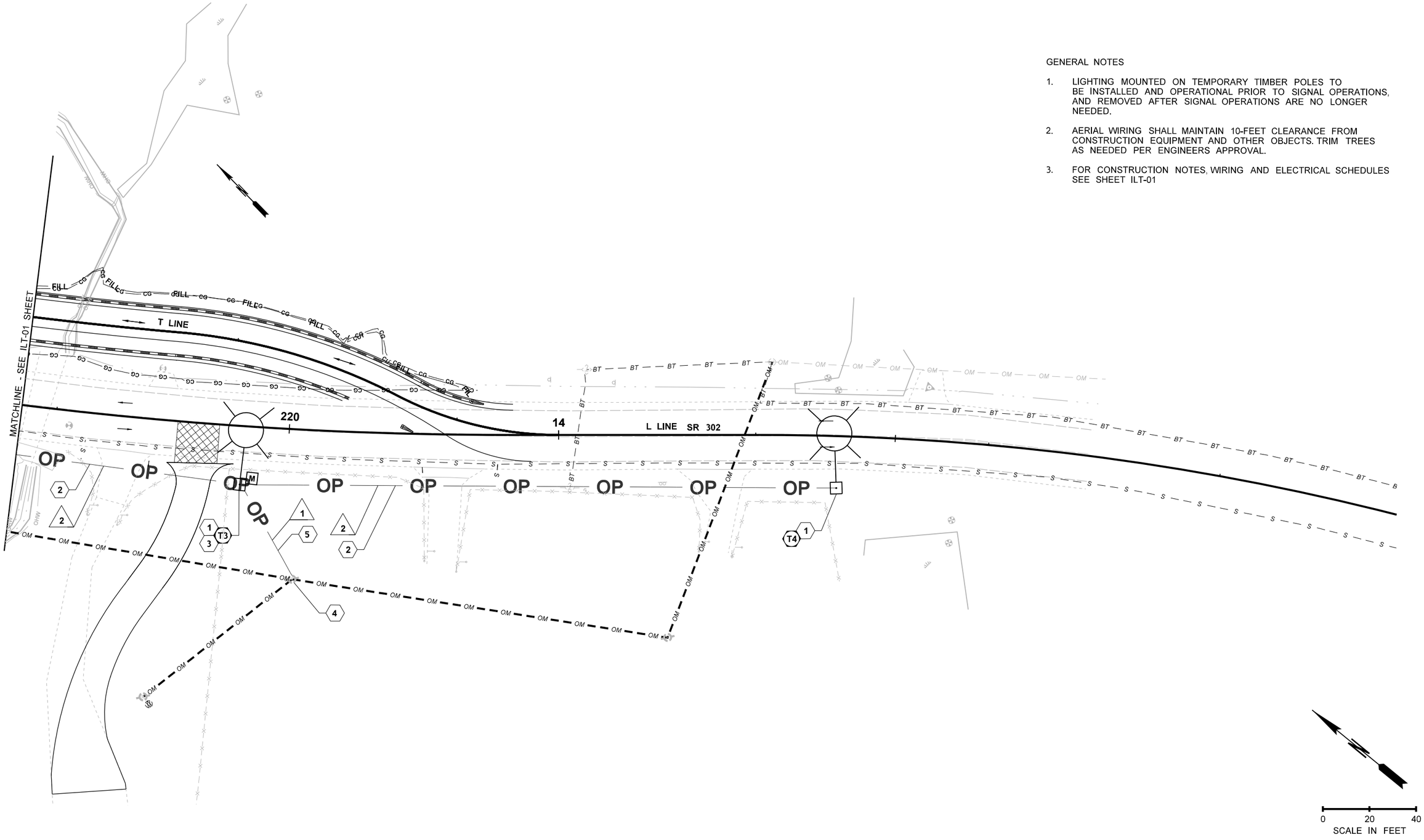
TEMPORARY ILLUMINATION PLAN

PLAN REF NO ILT1
SHEET 49 OF 95 SHEETS

pw:\\projectstore.wsdot.wa.gov:WSDOT\Documents_HQ\Fish Passage\ORproj\000\Y12534\Task Order AQ\700PROJTEC\702 Roadway\Sheets\XL6186_PS_ILT_001.dgn

GENERAL NOTES

1. LIGHTING MOUNTED ON TEMPORARY TIMBER POLES TO BE INSTALLED AND OPERATIONAL PRIOR TO SIGNAL OPERATIONS, AND REMOVED AFTER SIGNAL OPERATIONS ARE NO LONGER NEEDED.
2. AERIAL WIRING SHALL MAINTAIN 10-FEET CLEARANCE FROM CONSTRUCTION EQUIPMENT AND OTHER OBJECTS. TRIM TREES AS NEEDED PER ENGINEERS APPROVAL.
3. FOR CONSTRUCTION NOTES, WIRING AND ELECTRICAL SCHEDULES SEE SHEET ILT-01



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PLOTTED BY	LEMKEP				23C508		
DESIGNED BY	D. BAILEY				CONTRACT NO.		LOCATION NO.
ENTERED BY	D. BAILEY						XL6186
CHECKED BY	A. MUDIGONDA						
PROJ. ENGR.	B. KRAMER						
REGIONAL ADM.	S. ROARK	REVISION	DATE	BY			

ANIL P. MUDIGONDA — STATE OF WASHINGTON — 51435 — REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1 DATE

P.E. STAMP BOX

JACOBS

Washington State Department of Transportation

SR 302
VICTOR CREEK
REMOVE FISH BARRIER

TEMPORARY ILLUMINATION PLAN

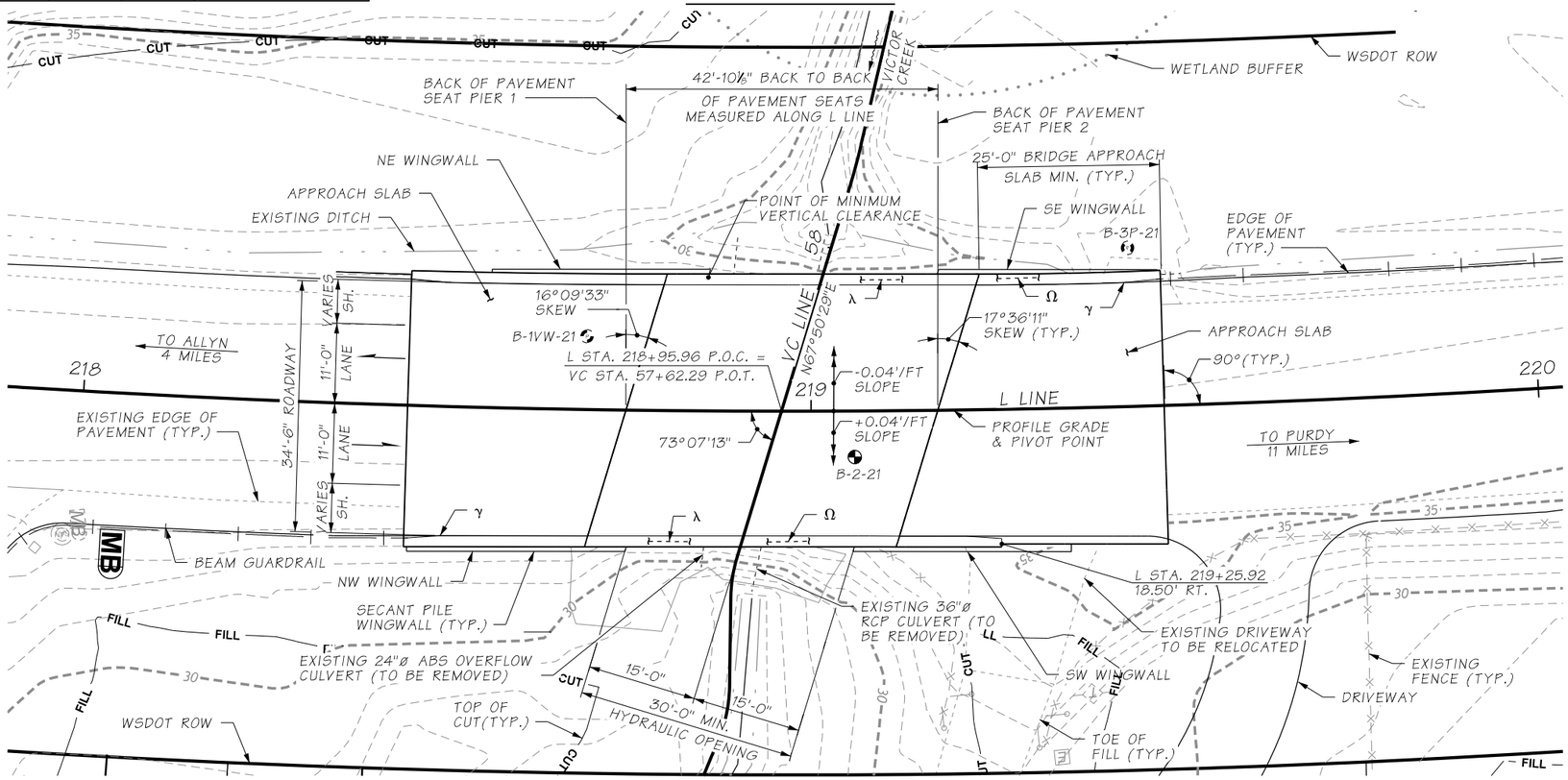
PLAN REF NO
ILT2

SHEET 50 OF 95 SHEETS

CURVE DATA					
P.I. STA.	Δ	RADIUS	TANGENT	LENGTH	BACK TANGENT BRG.
L 219+17.53	11°57'11" LT.	1700.00'	177.97'	354.65'	S33°46'02"E

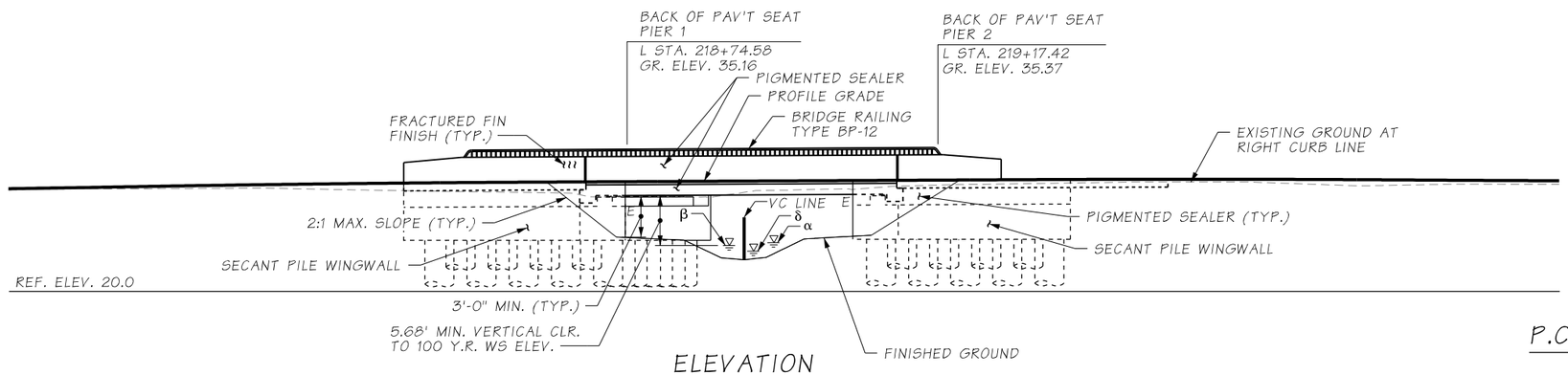
SEC. 28, T.22N., R.1W., W.M.
MASON COUNTY

SR 302



PLAN

BEARING OF BOTH PIERS ARE N67°50'29"E



ELEVATION

GRADE ELEVATIONS ARE FINISH GRADES AT TOP OF BRIDGE DECK ON L LINE AND ARE EQUAL TO PROFILE GRADE

α 500 YR. M.R.I.
W.S. ELEV. 26.50
Q = 75.5 CFS

β 100 YR. M.R.I.
W.S. ELEV. 26.30
Q = 58.4 CFS

δ NORMAL HIGH WATER
W.S. ELEV. 25.75

DATUM

N.A.V.D. 88

LEGEND

- SOIL BORING LOCATION
- SOIL BORING AND PIEZOMETER LOCATION
- γ GUARDRAIL CONNECTION TYPE D (STD. PLAN C-24.10-03)
- Ω BRIDGE RAILING TYPE BP-12
- λ 2 - 2"ø CONDUIT PIPES IN TRAFFIC BARRIER FOR FULL LENGTH OF BARRIER

NOTES:

1. SEE SHEET UT-01 FOR EXISTING UTILITIES.

P.C. GIRDERS (18" VOIDED SLAB)
LOADING: HL93

SEISMIC OPERATIONAL CLASSIFICATION: ORDINARY

	c:\users\lemkep\pw_wsdot\d0538122\XL6186_BG01.dgn		
TIME	6:54:54 PM		
DATE	1/31/2024		
PLOTTED BY			
DESIGNED BY	K. YOUNG		
ENTERED BY	N. MORALES		
CHECKED BY	X. WU		
PROJ. ENGR.	B. KRAMER		
REGIONAL ADM.	S. ROARK	REVISION	DATE

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER		
23C508		
CONTRACT NO.		LOCATION NO.
		XL6186

KEVIN S. KIM — STATE OF WASHINGTON — 21924 — STRUCTURAL ENGINEER — PROFESSIONAL ENGINEER

SEE SHEET CT1 DATE

P.E. STAMP BOX

DATE

P.E. STAMP BOX

Washington State Department of Transportation

Jacobs

SR 302
VICTOR CREEK
REMOVE FISH BARRIER

LAYOUT

PLAN REF NO
BG01
SHEET 51 OF 95 SHEETS

GENERAL NOTES:

1. UNLESS NOTED OTHERWISE, ALL MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION DATED 2024.

2. THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS 9TH EDITION 2020. THIS STRUCTURE HAS BEEN DESIGNED FOR A 3" HMA FUTURE WEARING SURFACE.

3. THE SEISMIC DESIGN OF THIS STRUCTURE HAS BEEN COMPLETED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AASHTO GUIDE SPECIFICATIONS FOR LRFD SEISMIC BRIDGE DESIGN 2ND EDITION WITH INTERIM REVISIONS THROUGH 2022, AS MODIFIED BY THE WSDOT BRIDGE DESIGN MANUAL, JUNE 2022. THE SEISMIC DESIGN WAS PERFORMED USING THE FOLLOWING:
   - SEISMIC DESIGN CATEGORY: C
   - SITE CLASS: C
   - PEAK GROUND ACCELERATION: 0.62G (SITE CLASS C)
   - 0.2 SECOND SPECTRAL ACCELERATION: 1.43G (SITE CLASS C)
   - 1.0 SECOND SPECTRAL ACCELERATION: 0.49G (SITE CLASS C)

4. THE CONCRETE IN THE BRIDGE DECK SHALL BE CLASS 4000D. CONCRETE IN DRILLED SHAFT SHALL BE CLASS 4000P. THE CONCRETE IN BRIDGE APPROACH SLABS SHALL BE CLASS 4000A. ALL OTHER CAST-IN-PLACE CONCRETE SHALL BE CLASS 4000. THE LEAN CONCRETE IN THE 4'Ø LEAN CONCRETE SHAFTS SHALL CONFORM TO STANDARD SPECIFICATIONS SECTION 6-02.3(2)D.

5. THE BACKFILL BEHIND THE ABUTMENTS MAY BE PLACED BEFORE OR AFTER PLACEMENT OF THE SUPERSTRUCTURE, IN ACCORDANCE WITH SECTION 2-03.3(14)I OF THE STANDARD SPECIFICATIONS.

6. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED ¾" UNLESS NOTES OTHERWISE ON THE DRAWINGS.

7. UNLESS OTHERWISE SHOWN IN THE PLANS, CONCRETE COVER MEASURED FROM THE FACE OF CONCRETE TO THE FACE OF ANY REINFORCING STEEL SHALL BE 2½" AT THE TOP OF THE BRIDGE DECK, 1" AT THE BOTTOM OF THE BRIDGE DECK, AND 2" AT ALL OTHER LOCATIONS.

8. FALSEWORK SHALL BE CAREFULLY RELEASED TO PREVENT IMPACT OR UNDUE STRESS IN THE STRUCTURE.

9. CONDUITS, JUNCTION BOXES, AND UTILITIES ARE SHOWN FOR REFERENCE ONLY.

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TIME	6:56:50 PM		
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PLOTTED BY			
DESIGNED BY	K. YOUNG		
ENTERED BY	N. MORALES		
CHECKED BY	X. WU		
PROJ. ENGR.	B. KRAMER		
REGIONAL ADM.	S. ROARK	REVISION	DATE

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER 23C508		
CONTRACT NO.		LOCATION NO. XL6186

KEVIN S. KIM — STATE OF WASHINGTON — 21924 — STRUCTURAL ENGINEER — PROFESSIONAL ENGINEER

SEE SHEET CT1 DATE

P.E. STAMP BOX

DATE

P.E. STAMP BOX

Washington State Department of Transportation

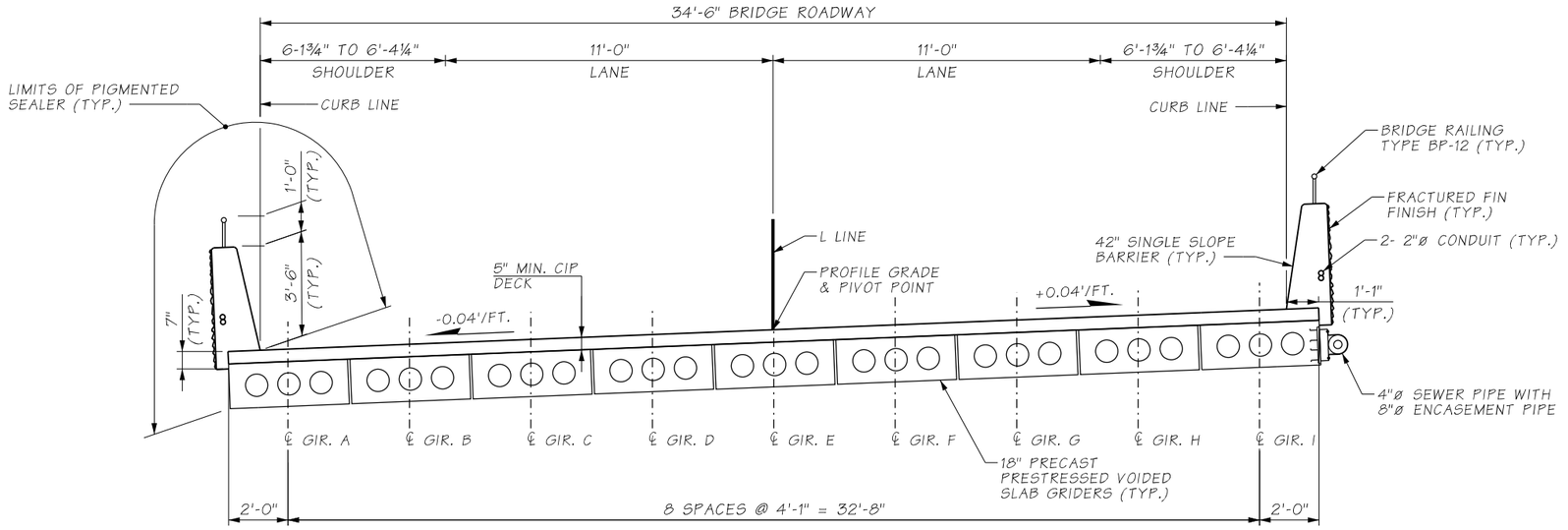
Jacobs

SR 302
VICTOR CREEK
REMOVE FISH BARRIER

GENERAL NOTES

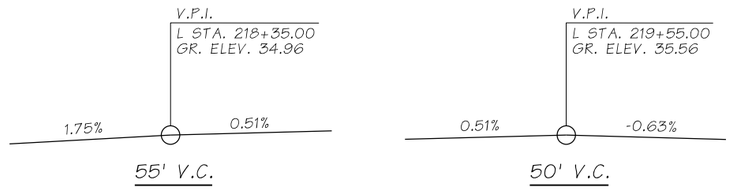
PLAN REF NO BG02

SHEET 52 OF 95 SHEETS



TYPICAL SECTION

SHOWN NEAR MID SPAN
DIMENSIONS SHOWN ARE
MEASURED NORMAL TO L LINE
LOOKING AHEAD ON STATION



L LINE PROFILE

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ENTERED BY	N. MORALES		
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PROJ. ENGR.	B. KRAMER		
REGIONAL ADM.	S. ROARK	REVISION	DATE

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER		
23C508		
CONTRACT NO.		LOCATION NO.
		XL6186

KEVIN S. KIM STATE OF WASHINGTON 21924 STRUCTURAL ENGINEER PROFESSIONAL ENGINEER

SEE SHEET CT1 DATE

P.E. STAMP BOX

DATE

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Washington State Department of Transportation

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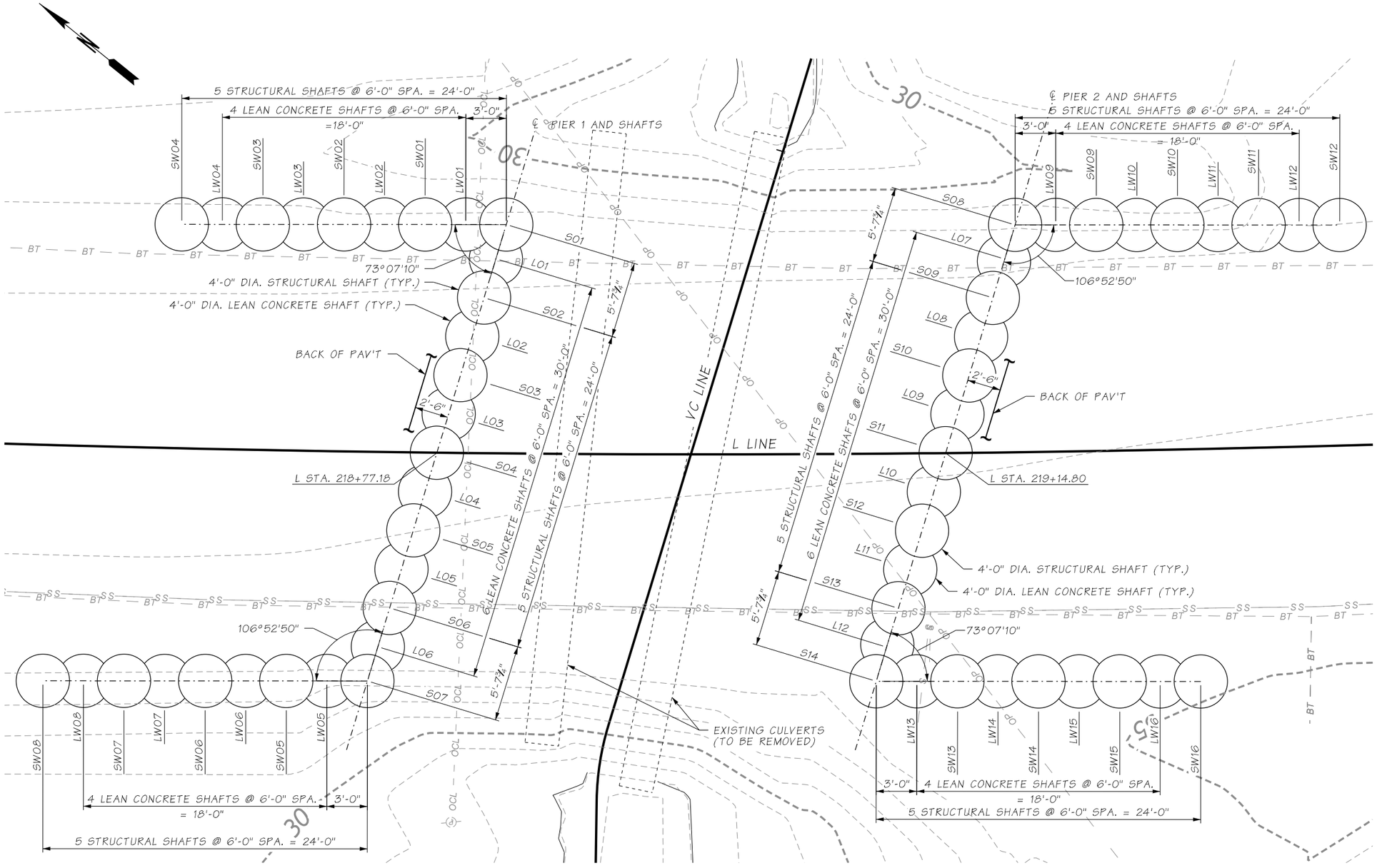
SR 302
VICTOR CREEK
REMOVE FISH BARRIER

TYPICAL SECTION

PLAN REF NO
BG03

SHEET 53 OF 95 SHEETS



GENERAL NOTES:

1. SHAFTS DESIGNATION:
   L## = LEAN CONCRETE SHAFTS
   S## = STRUCTURAL SHAFTS
   LW/SW## = SHAFTS FOR WALL
2. ALL UNDERGROUND FRANCHISE UTILITIES SHALL BE TEMPORARY RELOCATED BY OTHERS PRIOR TO SHAFT CONSTRUCTION.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY RELOCATION OF WATER LINES, GAS LINES, STORM DRAIN LINES AND OVERHEAD ELECTRICAL (OH) PRIOR TO SHAFT CONSTRUCTION.

FOUNDATION PLAN

BEARING OF BOTH PIERS ARE N67°50'29"E

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TIME	7:00:00 PM		
DATE	1/31/2024		
PLOTTED BY			
DESIGNED BY	K. YOUNG		
ENTERED BY	N. MORALES		
CHECKED BY	X. WU		
PROJ. ENGR.	B. KRAMER		
REGIONAL ADM.	S. ROARK	REVISION	DATE

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER		
23C508		
CONTRACT NO.		LOCATION NO.
		XL6186

KEVIN S. KIM — STATE OF WASHINGTON — 21824 — STRUCTURAL ENGINEER — PROFESSIONAL ENGINEER

SEE SHEET CT1 DATE

P.E. STAMP BOX

DATE

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Washington State Department of Transportation

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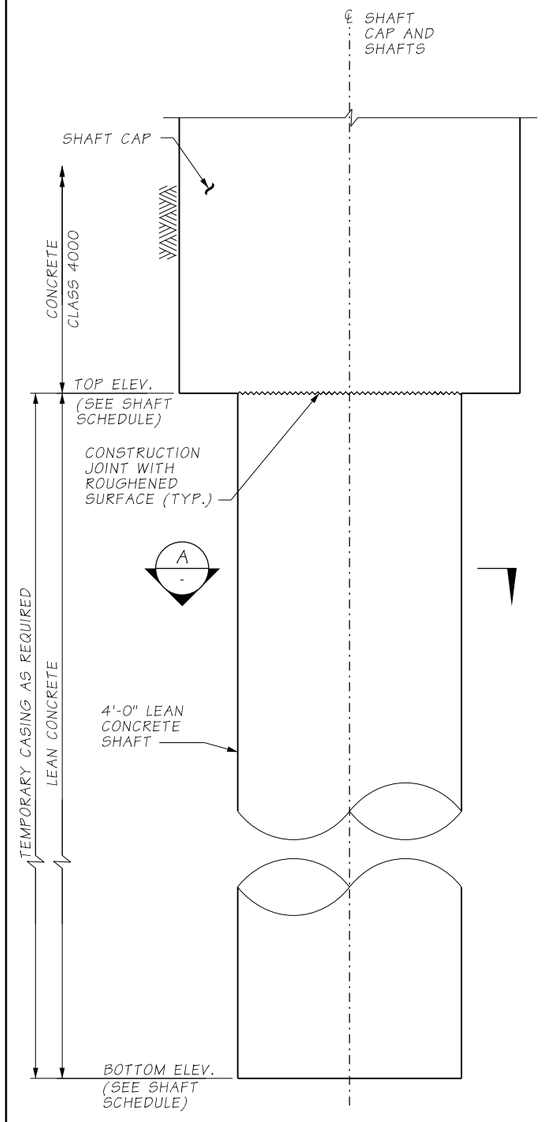
SR 302
VICTOR CREEK
REMOVE FISH BARRIER

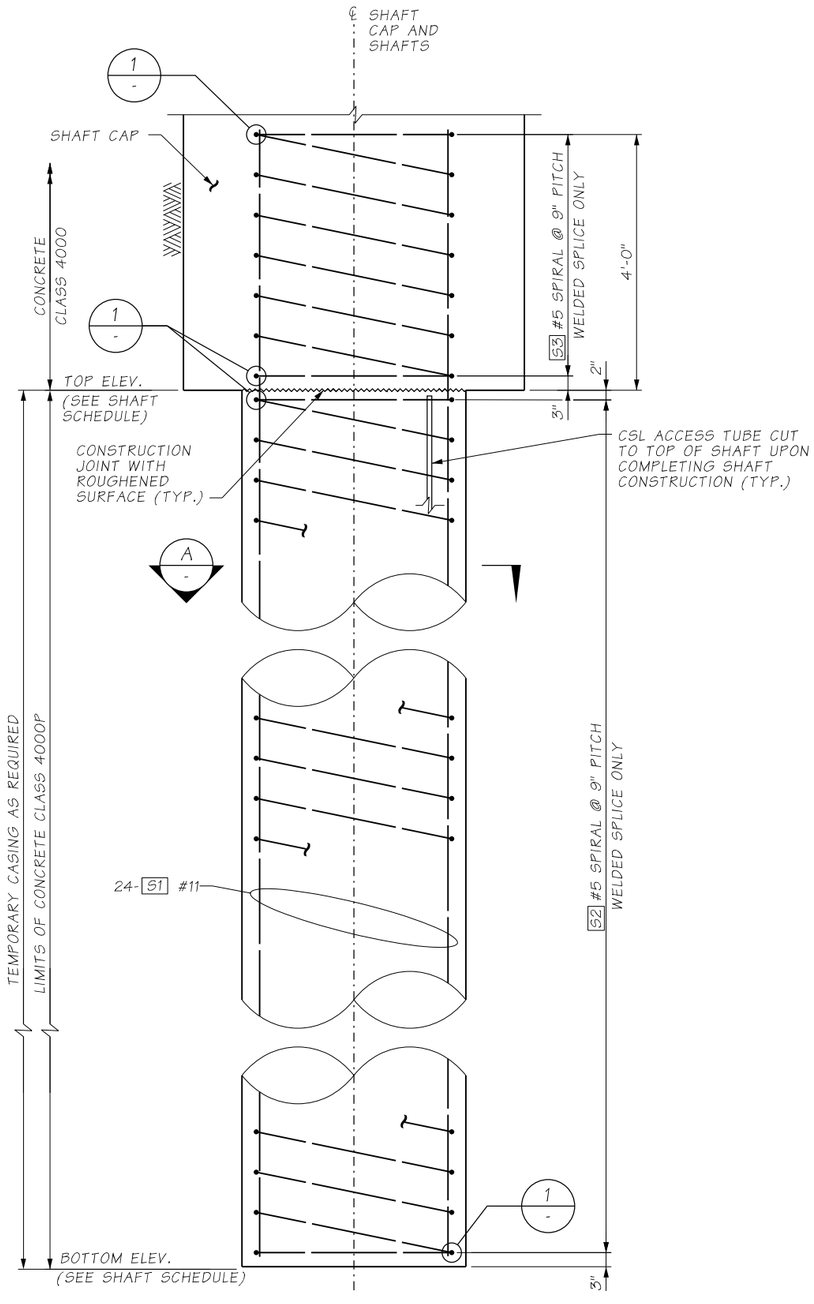
FOUNDATION PLAN

PLAN REF NO
BG04

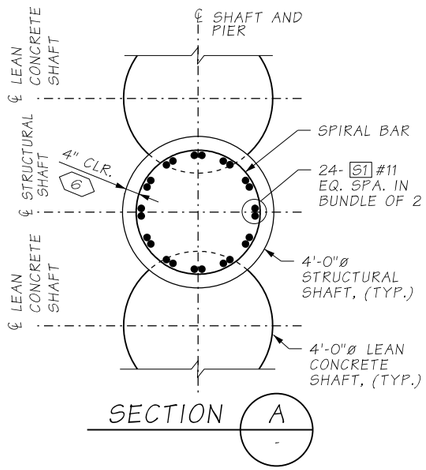
SHEET 54 OF 95 SHEETS



ELEVATION - LEAN CONCRETE SHAFT



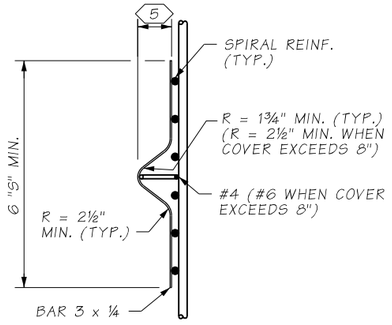
ELEVATION - STRUCTURAL SHAFT



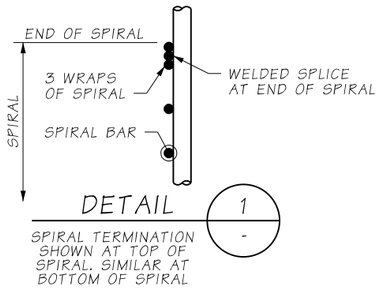
SECTION A -

NOTES:

1. ALL DRILLING OPERATIONS FOR SECANT PILES SCHEDULED WILL BE MONITORED BY THE ENGINEER.
2. PILE TIP ELEVATIONS WILL BE VERIFIED BY THE ENGINIEER PRIOR TO PLACING REINFORCING STEEL AND CONCRETE.
3. THE EXACT LOCATION AND DEPTH OF ALL AFFECTED UNDERGROUND UTILITIES MUST BE CONFIRMED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
4. SPIRAL BARS SHALL BE SPLICED WITH WELDED SPLICES. SEE DETAILS ON THIS SHEET.
5. MINIMUM CONCRETE COVER MINUS ½".
6. SEE STD. SPEC. 6-19.3(5)C. FOR MINIMUM CONCRETE COVER.
7. SEE STD. SPEC. 6-19.3(5)B FOR SPACING REQUIREMENTS.
8. WELDING SHALL MEET THE REQUIREMENTS OF STD. SPEC. 6-02.3(24)E
9. CENTRALIZERS SHALL BE EPOXY COATED OR PAINTED WITH PAINT CONFORMING TO STANDARD SPECIFICATION 9-08.1(2)C OR 9-08.1(2)F AFTER FABRICATION.
10. EACH LEG SHALL BE TIED TO TWO (2) VERTICAL BAR AND TWO (2) SPIRAL WRAPS OR TWO (2) HOOPS.
11. CAGECASTER® REBAR CAGE SPACERS BY FOUNDATION TECHNOLOGIES MAY BE USED IN LIEU OF DETAIL SHOWN. SPACING REQUIREMENTS SHALL BE PER MANUFACTURER'S RECOMMENDATIONS. EACH LEG SHALL BE TIED TO A MINIMUM OF TWO (2) SPIRAL WRAPS OR HOOPS.

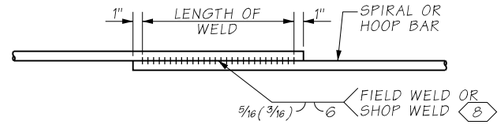


VIEW B -

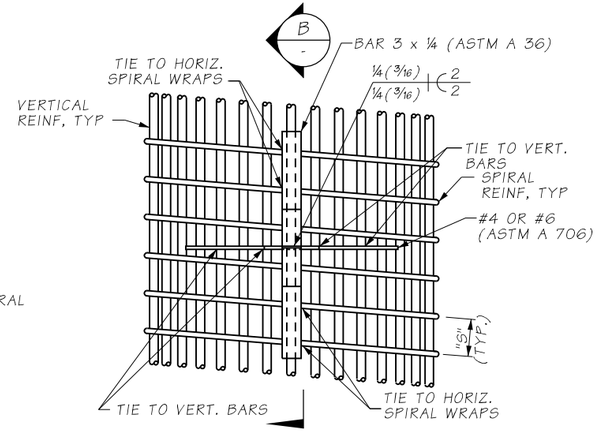


DETAIL 1 -

SPIRAL TERMINATION SHOWN AT TOP OF SPIRAL. SIMILAR AT BOTTOM OF SPIRAL



WELDED LAP SPLICE DETAIL



CENTRALIZER DETAIL

7 9 10 11

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TIME	7:00:53 PM		
DATE	1/31/2024		
PLOTTED BY			
DESIGNED BY	K. YOUNG		
ENTERED BY	N. MORALES		
CHECKED BY	X. WU		
PROJ. ENGR.	B. KRAMER		
REGIONAL ADM.	S. ROARK	REVISION	DATE

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER		
23C508		
CONTRACT NO.		LOCATION NO.
		XL6186

KEVIN S. KIM — STATE OF WASHINGTON — 21924 — STRUCTURAL ENGINEER — PROFESSIONAL ENGINEER

SEE SHEET CT1

P.E. STAMP BOX

DATE

P.E. STAMP BOX

Washington State Department of Transportation

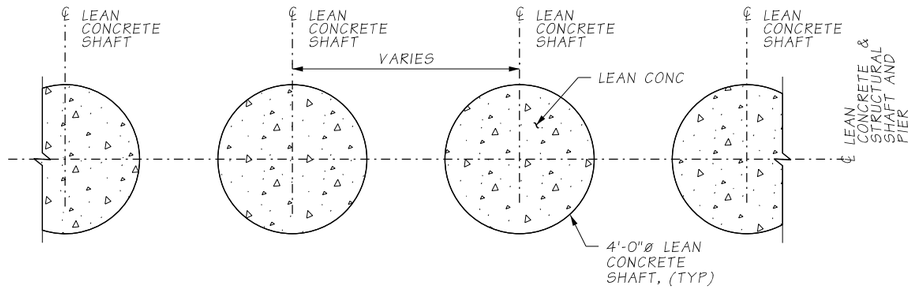
Jacobs

SR 302
VICTOR CREEK
REMOVE FISH BARRIER

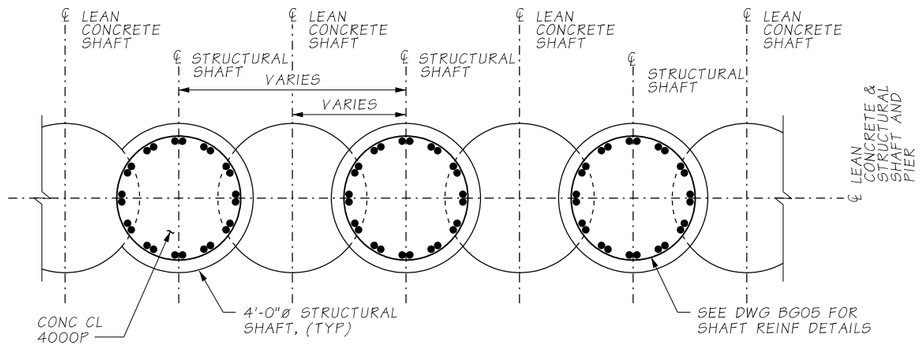
FOUNDATION DETAILS (1 OF 2)

PLAN REF NO BG05

SHEET 55 OF 95 SHEETS



STEP 1 - CONSTRUCT LEAN CONCRETE SHAFTS



STEP 2 - CONSTRUCT STRUCTURAL SHAFTS (CONC CL 4000P)

SHAFT CONSTRUCTION SEQUENCE

SECANT PILE ABUTMENT WALL LEAN CONCRETE SHAFT SCHEDULE

	SHAFT NUMBER	TOP ELEV. (FT)	BOTTOM ELEV. (FT)	SHAFT LENGTH
PIER 1	L01	25.99	11.99	14'-0"
	L02	25.99	11.99	14'-0"
	L03	25.99	11.99	14'-0"
	L04	25.99	11.99	14'-0"
	L05	25.99	11.99	14'-0"
	L06	25.99	11.99	14'-0"
	LW01	25.99	11.99	14'-0"
	LW02	25.99	11.99	14'-0"
	LW03	25.99	15.99	10'-0"
	LW04	25.99	19.99	6'-0"
	LW05	27.41	11.41	16'-0"
	LW06	27.41	11.41	16'-0"
	LW07	27.41	13.41	14'-0"
	LW08	27.41	18.41	9'-0"
PIER 2	L07	26.19	12.19	14'-0"
	L08	26.19	12.19	14'-0"
	L09	26.19	12.19	14'-0"
	L10	26.19	12.19	14'-0"
	L11	26.19	12.19	14'-0"
	L12	26.19	12.19	14'-0"
	LW09	26.19	12.19	14'-0"
	LW10	26.19	12.19	14'-0"
	LW11	26.19	15.19	11'-0"
	LW12	26.19	19.19	7'-0"
	LW13	27.59	11.59	16'-0"
	LW14	27.59	11.59	16'-0"
	LW15	27.59	14.59	13'-0"
	LW16	27.59	19.59	8'-0"

SECANT PILE ABUTMENT WALL STRUCTURAL SHAFT SCHEDULE

	SHAFT NUMBER	TOP ELEV. (FT)	BOTTOM ELEV. (FT)	SHAFT LENGTH
PIER 1	S01	25.99	-24.01	50'-0"
	S02	25.99	-24.01	50'-0"
	S03	25.99	-24.01	50'-0"
	S04	25.99	-24.01	50'-0"
	S05	25.99	-24.01	50'-0"
	S06	25.99	-24.01	50'-0"
	S07	25.99	-24.01	50'-0"
	SW01	25.99	-24.04	50'-0"
	SW02	25.99	-24.04	50'-0"
	SW03	25.99	-14.04	40'-0"
	SW04	25.99	-14.04	40'-0"
	SW05	27.41	-22.55	50'-0"
	SW06	27.41	-22.55	50'-0"
	SW07	27.41	-12.55	40'-0"
	SW08	27.41	-12.55	40'-0"
PIER 2	S08	26.19	-23.81	50'-0"
	S09	26.19	-23.81	50'-0"
	S10	26.19	-23.81	50'-0"
	S11	26.19	-23.81	50'-0"
	S12	26.19	-23.81	50'-0"
	S13	26.19	-23.81	50'-0"
	S14	26.19	-23.81	50'-0"
	SW09	26.19	-23.81	50'-0"
	SW10	26.19	-23.81	50'-0"
	SW11	26.19	-13.81	40'-0"
	SW12	26.19	-13.81	40'-0"
	SW13	27.59	-22.41	50'-0"
	SW14	27.59	-22.41	50'-0"
	SW15	27.59	-12.41	40'-0"
	SW16	27.59	-12.41	40'-0"

SHAFT BAR LIST
QUANTITIES ARE PER SHAFT

PIER 1 SHAFTS

MARK	SIZE	NO.	LENGTH	BEND TYPE	WT. (LB)
S1	#11	24	53'-9"	STRAIGHT	6854
S2	#5	1	49'-7"	SPIRAL	713
S3	#5	1	3'-9"	SPIRAL	54
				TOTAL	7621

PIER 2 SHAFTS

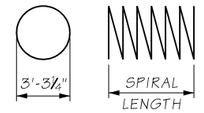
MARK	SIZE	NO.	LENGTH	BEND TYPE	WT. (LB)
S1	#11	24	53'-9"	STRAIGHT	6854
S2	#5	1	49'-7"	SPIRAL	713
S3	#5	1	3'-9"	SPIRAL	54
				TOTAL	7621

WINGWALL 50'-0" SHAFTS

MARK	SIZE	NO.	LENGTH	BEND TYPE	WT. (LB)
S1	#11	24	53'-9"	STRAIGHT	6854
S2	#5	1	49'-7"	SPIRAL	713
S3	#5	1	3'-9"	SPIRAL	54
				TOTAL	7621

WINGWALL 40'-0" SHAFTS

MARK	SIZE	NO.	LENGTH	BEND TYPE	WT. (LB)
S1	#11	24	43'-9"	STRAIGHT	5579
S2	#5	1	39'-7"	SPIRAL	569
S3	#5	1	3'-9"	SPIRAL	54
				TOTAL	6202



SPIRAL

WEIGHT DOES NOT INCLUDE WELDED LAP SPLICES

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DATE	1/31/2024		
PLOTTED BY			
DESIGNED BY	K. YOUNG		
ENTERED BY	N. MORALES		
CHECKED BY	X. WU		
PROJ. ENGR.	B. KRAMER		
REGIONAL ADM.	S. ROARK	REVISION	DATE

REGION NO. 10 | STATE WASH | FED.AID PROJ.NO.
JOB NUMBER 23C508
CONTRACT NO. | LOCATION NO. XL6186

KEVIN S. KIM STATE OF WASHINGTON 21624 STRUCTURAL ENGINEER PROFESSIONAL ENGINEER
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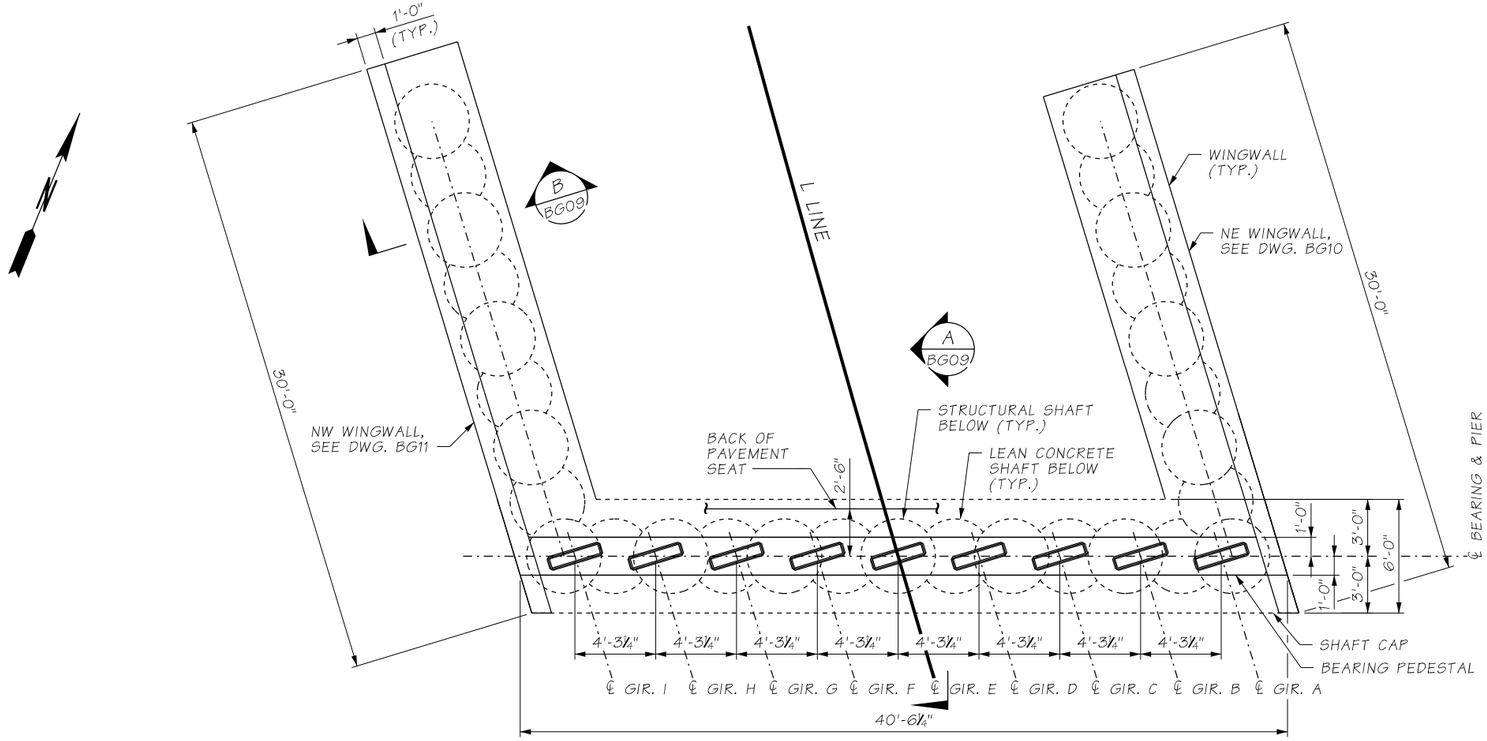
FOUNDATION DETAILS (2 OF 2)

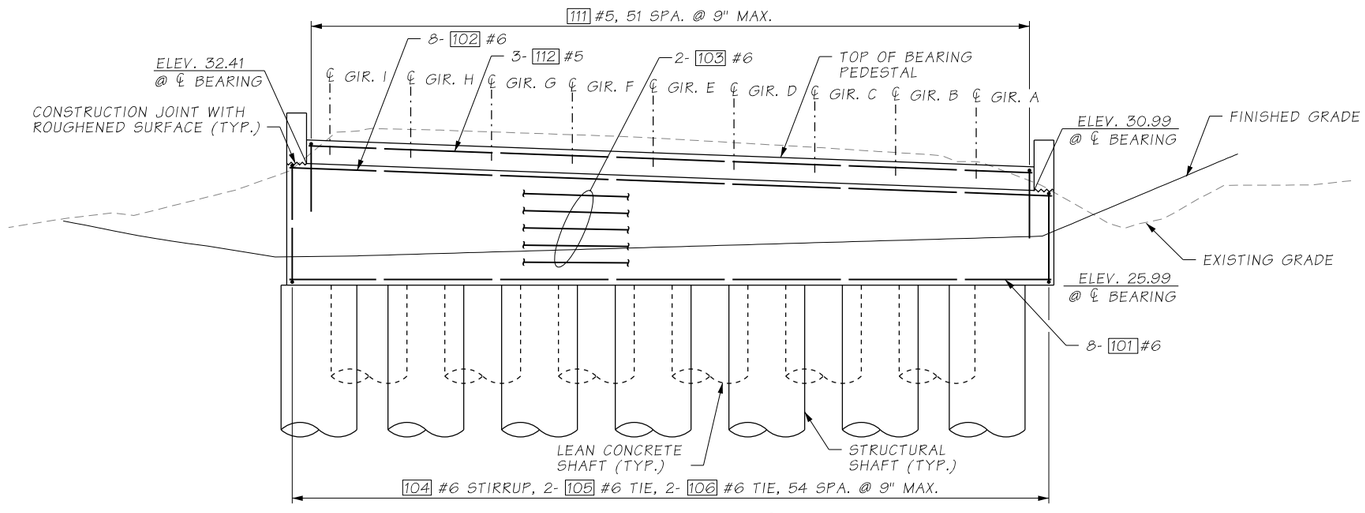
PLAN REF NO BG06

SHEET 56 OF 95 SHEETS



PIER 1 - PLAN

TOP OF GROUT PAD ELEVATIONS	
GIRDER	ELEVATION
A	32.45
B	32.61
C	32.76
D	32.92
E	33.08
F	33.24
G	33.40
H	33.55
I	33.71



PIER 1 - ELEVATION

SHOWN LOOKING BACK ON STATION

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TIME	7:02:30 PM		
DATE	1/31/2024		
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REGIONAL ADM.	S. ROARK	REVISION	DATE

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER		
23C508		
CONTRACT NO.		LOCATION NO.
		XL6186

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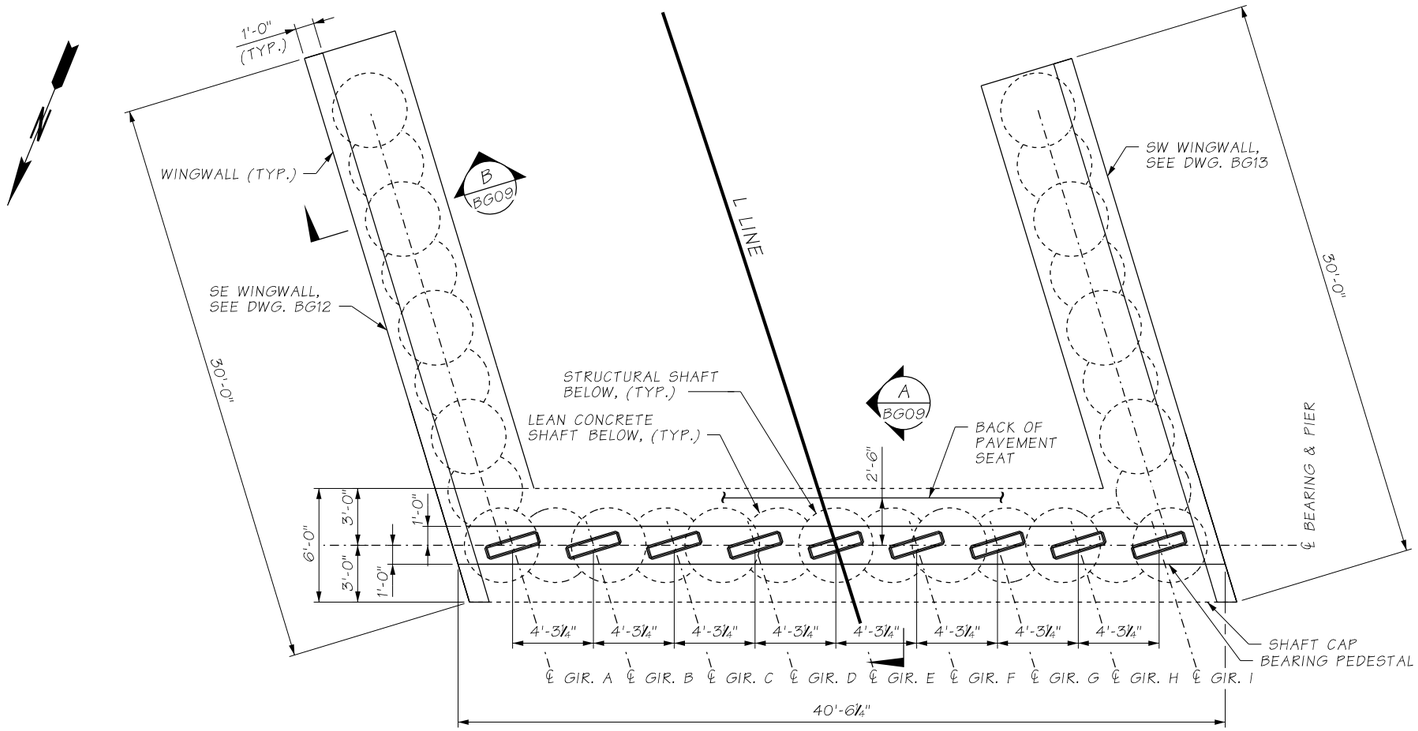
PIER 1 PLAN AND ELEVATION

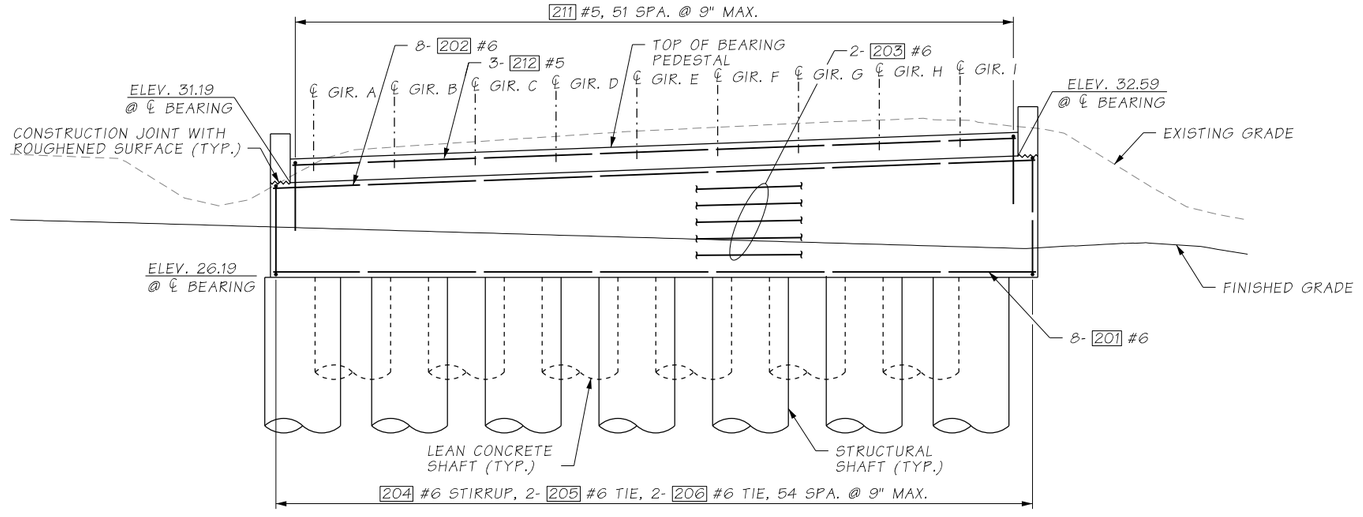
PLAN REF NO
BG07

SHEET 57 OF 95 SHEETS



PIER 2 - PLAN

TOP OF GROUT PAD ELEVATIONS	
GIRDER	ELEVATION
A	32.65
B	32.80
C	32.96
D	33.11
E	33.27
F	33.43
G	33.58
H	33.74
I	33.90



PIER 2 - ELEVATION

SHOWN LOOKING AHEAD ON STATION

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DATE	1/31/2024		
PLOTTED BY			
DESIGNED BY	K. YOUNG		
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PROJ. ENGR.	B. KRAMER		
REGIONAL ADM.	S. ROARK	REVISION	DATE

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER		
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CONTRACT NO.		LOCATION NO.
		XL6186

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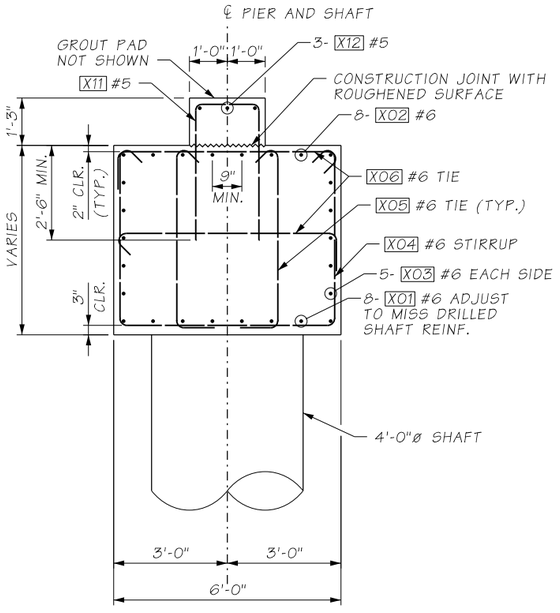
PIER 2 PLAN AND ELEVATION

PLAN REF NO
BG08

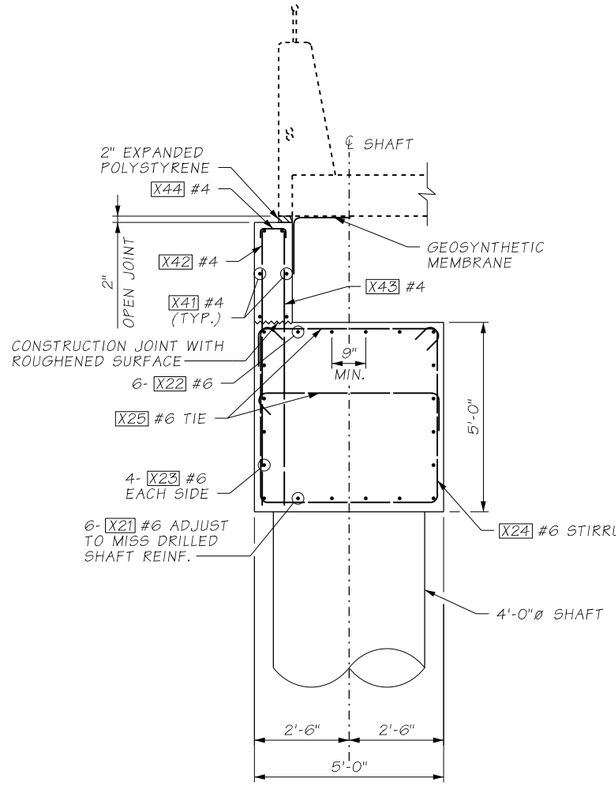
SHEET 58 OF 95 SHEETS

GENERAL NOTES:

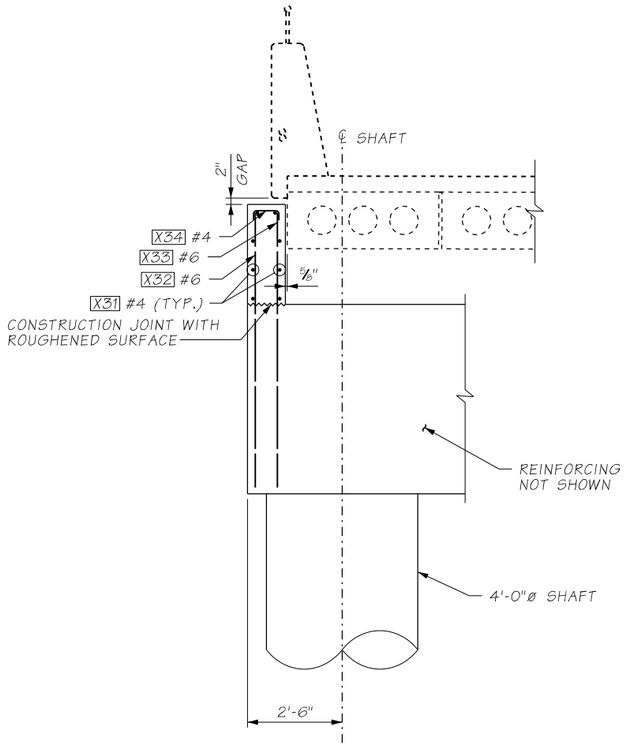
1. BAR MARK DESIGNATION:
   X## X=PIER NUMBER
   ##=BAR NUMBER



SECTION A
BG07, BG08



SECTION B
TYPICAL SECTION AT APPROACH SLAB
BG07, BG08 BG10, BG11, BG12, BG13



SECTION C
TYPICAL SECTION AT BRIDGE
BG10, BG11, BG12, BG13

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REGION NO.	STATE	FED.AID PROJ.NO.
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JOB NUMBER		
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CONTRACT NO.		LOCATION NO.
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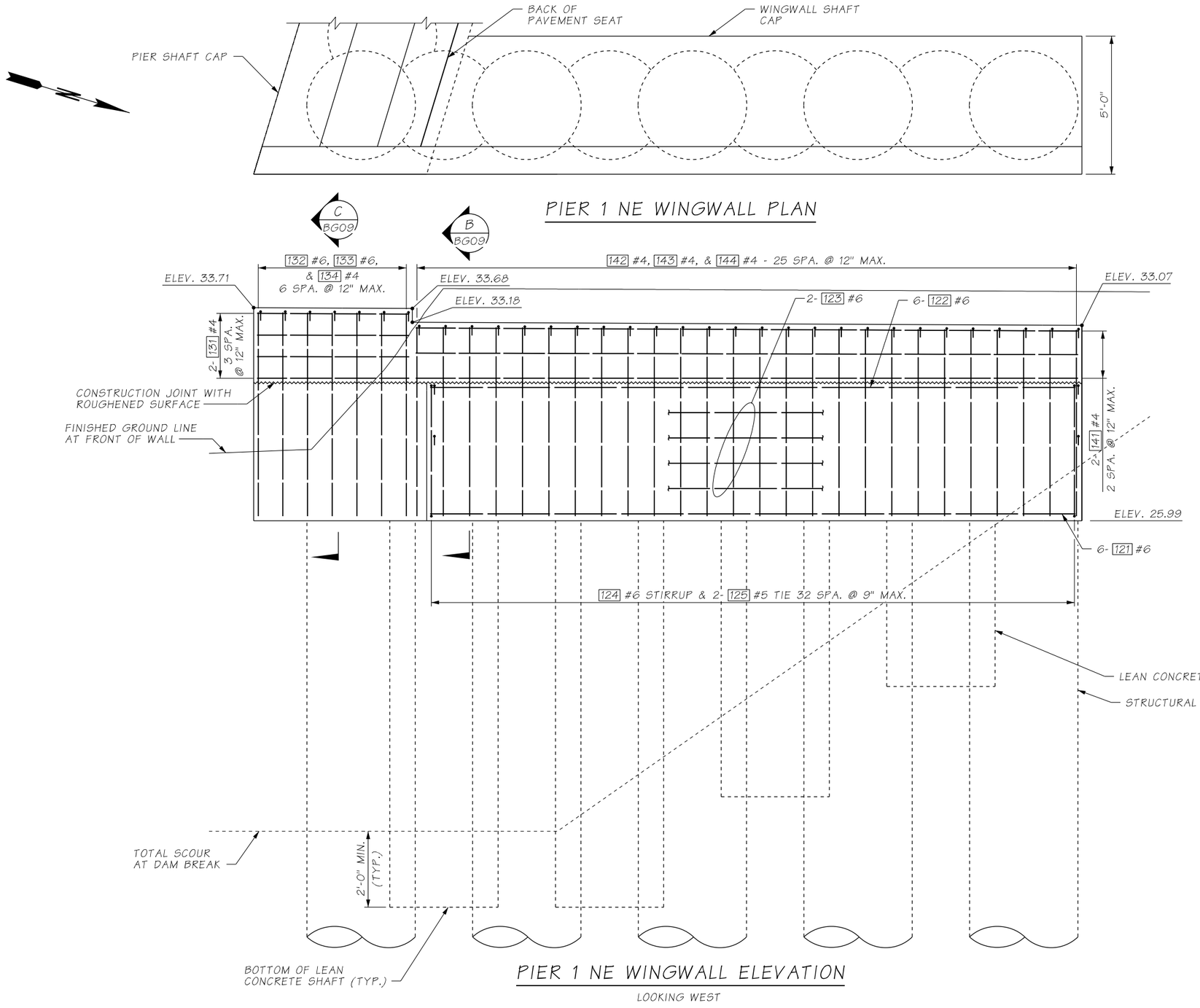
PIER 1 & 2 SECTIONS

PLAN REF NO
BG09

SHEET 59 OF 95 SHEETS



PIER 1 NE WINGWALL PLAN

PIER 1 NE WINGWALL ELEVATION

LOOKING WEST

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DATE	1/31/2024		
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REGION NO.	STATE	FED.AID PROJ.NO.
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CONTRACT NO.		LOCATION NO.
		XL6186

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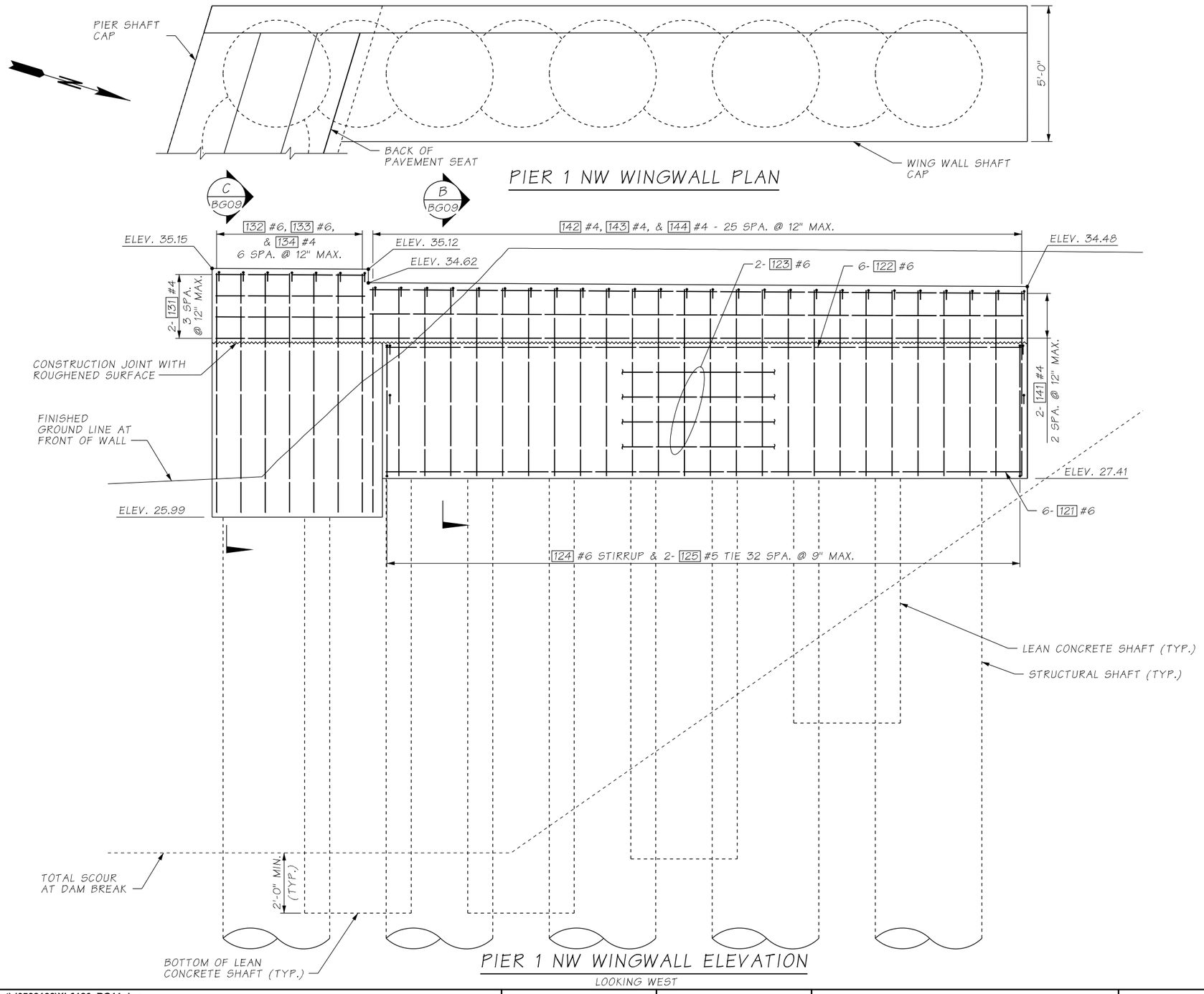
REMOVE FISH BARRIER

PIER 1 NE WINGWALL

PLAN REF NO BG10

SHEET 60 OF 95 SHEETS



PIER 1 NW WINGWALL PLAN

PIER 1 NW WINGWALL ELEVATION

LOOKING WEST

c:\users\lemkep\pw_wsdot\d0538122\XL6186_BG11.dgn

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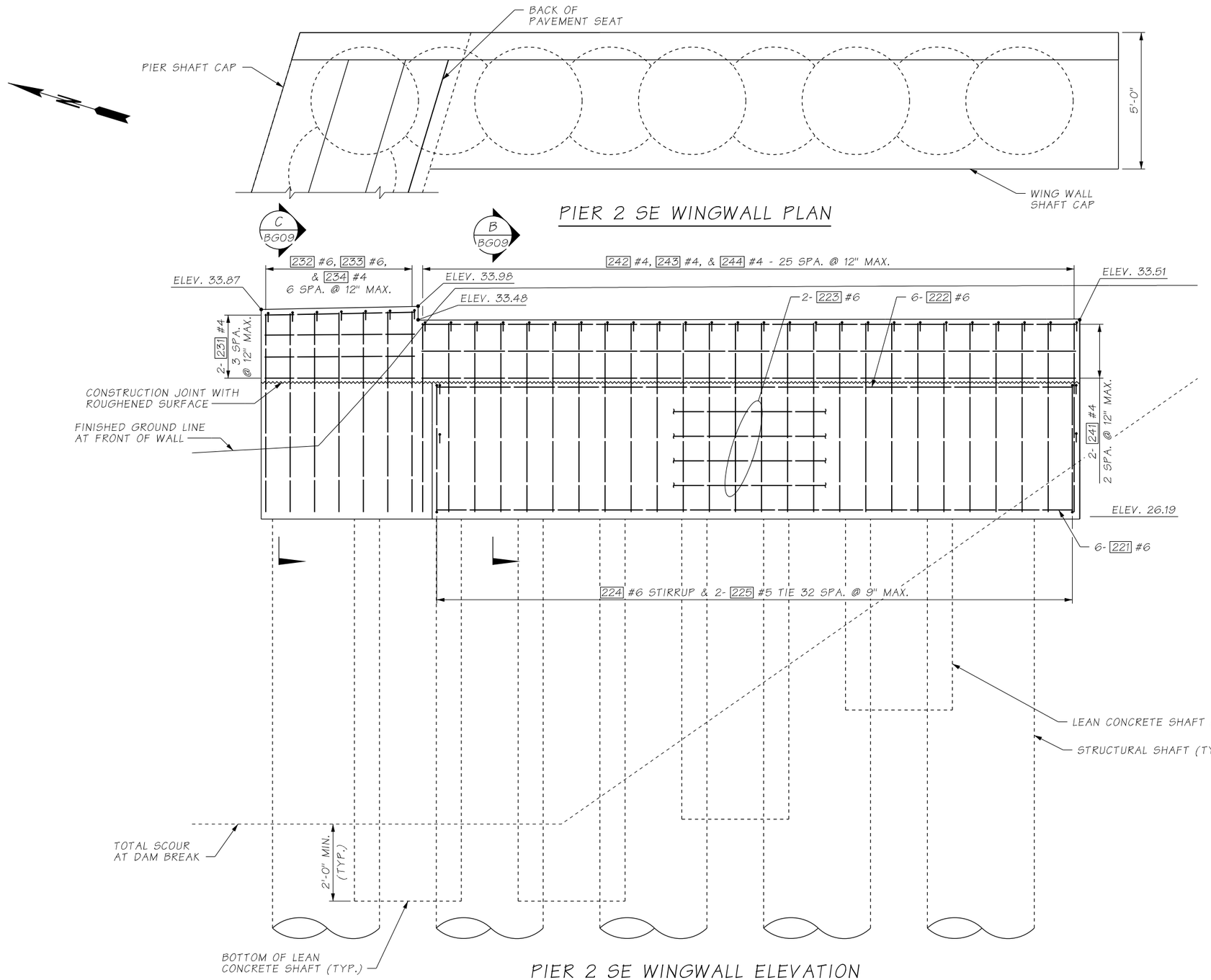
PIER 1 NW WINGWALL

PLAN REF NO BG11

SHEET 61 OF 95 SHEETS



PIER 2 SE WINGWALL PLAN

PIER 2 SE WINGWALL ELEVATION

LOOKING EAST

	c:\users\lemkep\pw_wsdot\d0538122\XL6186_BG12.dgn			REGION NO. 10	STATE WASH	FED.AID PROJ.NO.	
TIME	7:08:09 PM						
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DESIGNED BY	K. YOUNG			CONTRACT NO.		LOCATION NO. XL6186	
ENTERED BY	N. MORALES						
CHECKED BY	X. WU						
PROJ. ENGR.	B. KRAMER						
REGIONAL ADM.	S. ROARK	REVISION	DATE				

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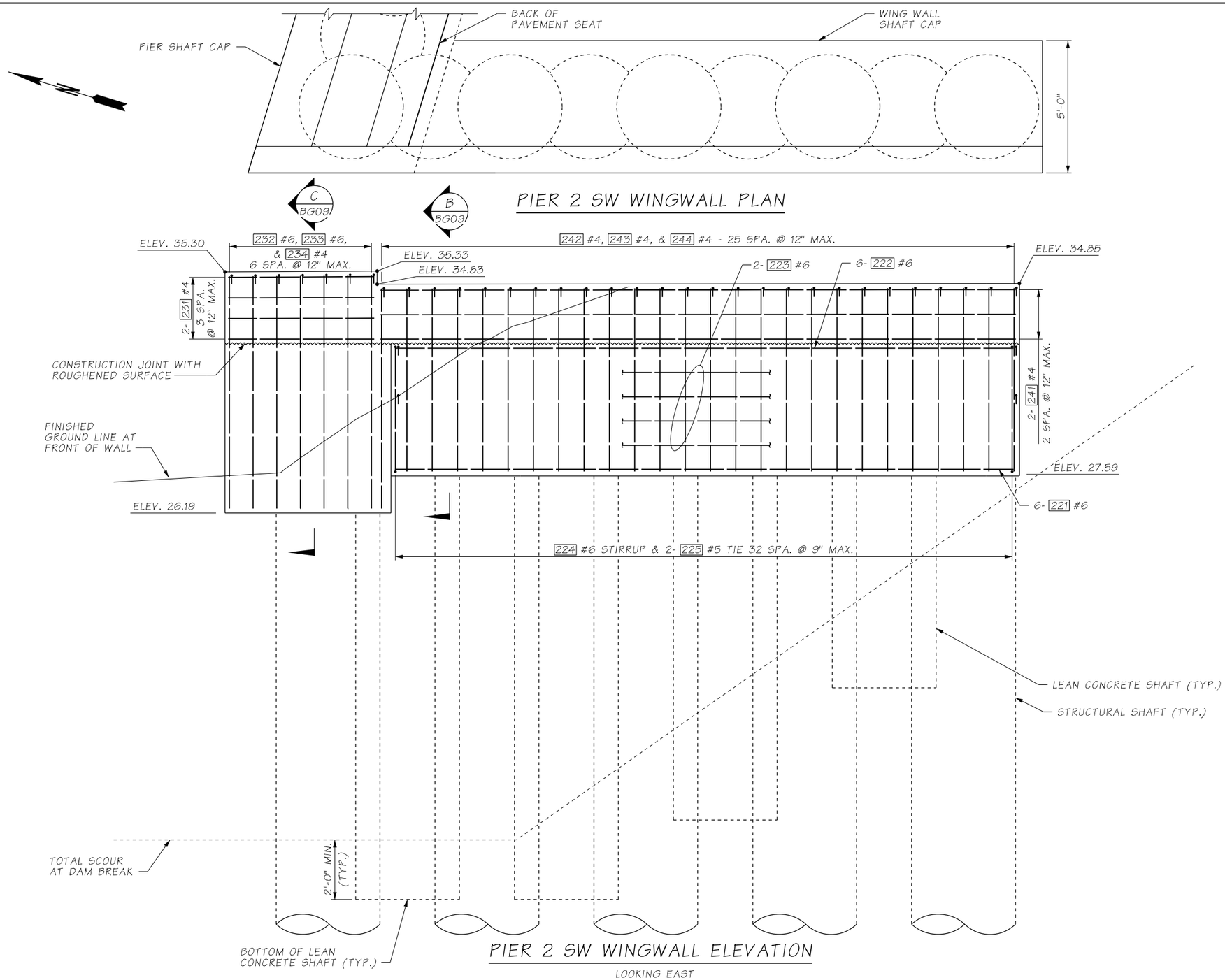
PIER 2 SE WINGWALL

PLAN REF NO BG12

SHEET 62 OF 95 SHEETS



PIER 2 SW WINGWALL PLAN

PIER 2 SW WINGWALL ELEVATION

LOOKING EAST

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TIME	7:09:12 PM		
DATE	1/31/2024		
PLOTTED BY			
DESIGNED BY	K. YOUNG		
ENTERED BY	N. MORALES		
CHECKED BY	X. WU		
PROJ. ENGR.	B. KRAMER		
REGIONAL ADM.	S. ROARK	REVISION	DATE

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER 23C508		
CONTRACT NO.		LOCATION NO. XL6186

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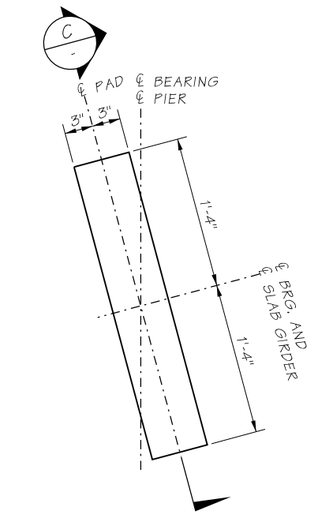
REMOVE FISH BARRIER

PIER 2 SW WINGWALL

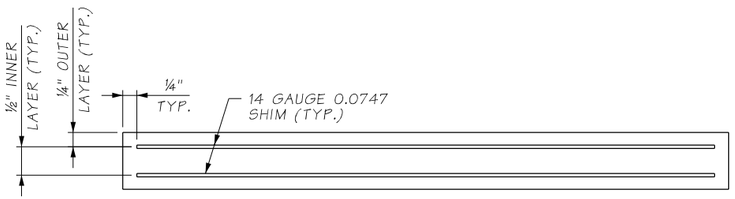
PLAN REF NO BG13

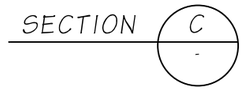
SHEET 63 OF 95 SHEETS



ELASTOMERIC BEARING PAD

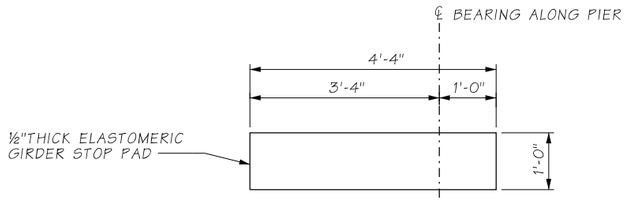
LAMINATED ELASTOMERIC BEARING PAD





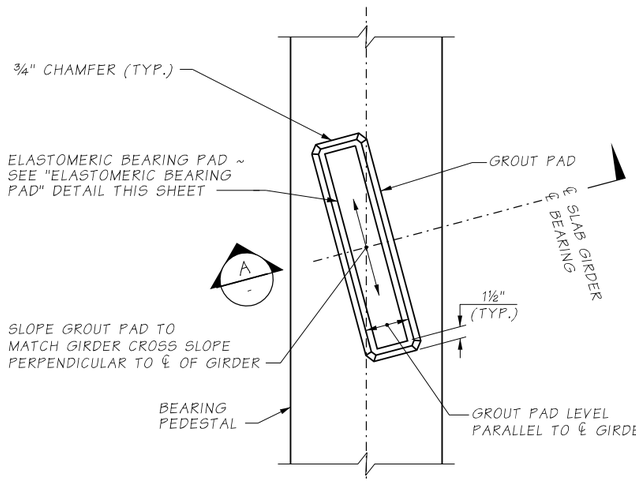
NOTES:

1. FULL BEARING OF SLAB UNIT IS REQUIRED AT EACH ELASTOMERIC BEARING



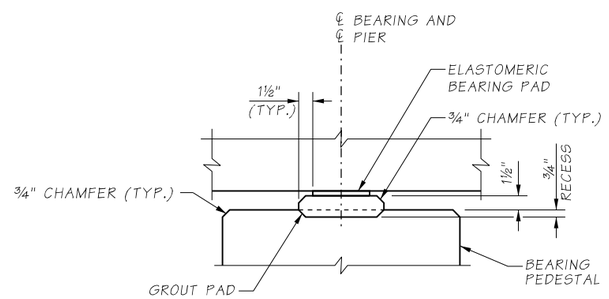
ELASTOMERIC GIRDER STOP PAD

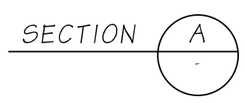
SHEAR MODULUS = 165 PSI



GROUT PAD

1





BEARING DESIGN TABLE AASHTO METHOD B DESIGN	
SERVICE - 1 LIMIT STATE	
DEAD LOAD (DL) REACTION	32 KIPS
LIVE LOAD REACTION (W/O IMPACT)	23 KIPS
UNLOADED HEIGHT	1.15 IN
LOADED HEIGHT (DL)	1.14 IN
SHEAR MODULUS	165 PSI

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TIME	7:09:51 PM		
DATE	1/31/2024		
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REGIONAL ADM.	S. ROARK	REVISION	DATE

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER		
23C508		
CONTRACT NO.		LOCATION NO.
		XL6186

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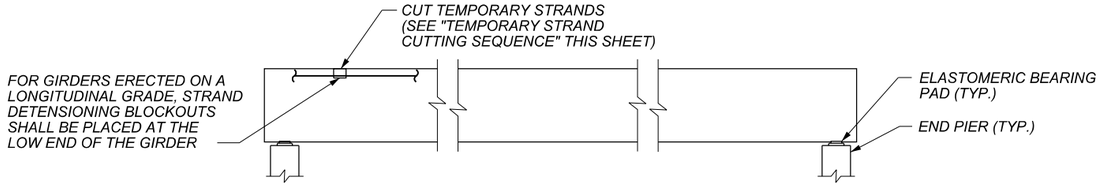
BRIDGE BEARING DETAILS

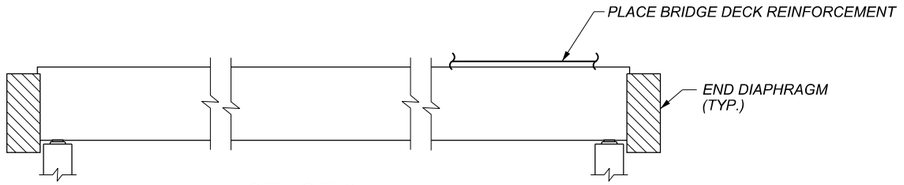
PLAN REF NO
BG14

SHEET 64 OF 95 SHEETS



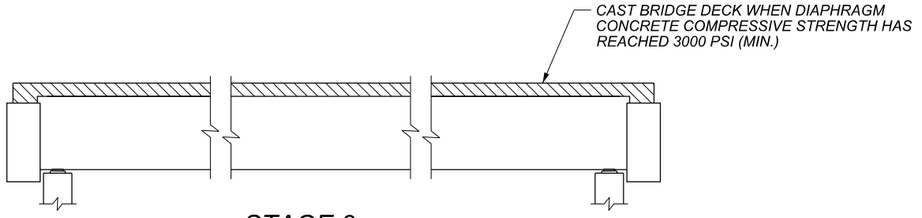
STAGE 1
SET GIRDERS IN PLACE

INSTALL TEMPORARY BRACING FOR ERECTION
IN ACCORDANCE WITH STD. SPEC. SECTION 6-02.3(17)F4.

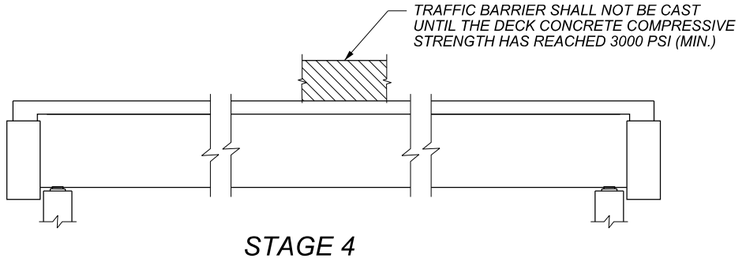


STAGE 2
CAST END DIAPHRAGMS & PLACE BRIDGE DECK REINFORCEMENT

INSTALL TEMPORARY BRACING FOR DIAPHRAGM AND DECK PLACEMENT IN ACCORDANCE WITH STD. SPEC. SECTION 6-02.3(17)F5,
TEMPORARY BRACING SHALL ALSO RESIST FORCES FROM PLACEMENT OF CONCRETE FOR DIAPHRAGMS.



STAGE 3
CAST BRIDGE DECK



STAGE 4
CAST TRAFFIC BARRIERS

CONSTRUCTION SEQUENCE ~ SUPERSTRUCTURE

TEMPORARY STRAND CUTTING SEQUENCE

1. ERECT AND BRACE GIRDERS.
2. JUST PRIOR TO CUTTING THE TEMPORARY STRANDS, REMOVE EXPANDED POLYSTYRENE IN BLOCKOUTS IN TOP FLANGE OF GIRDERS. ONCE THE EXPANDED POLYSTYRENE HAS BEEN REMOVED FROM THE STRAND DETENSIONING BLOCKOUT, PREVENT MOISTURE FROM ENTERING THE BLOCKOUT UNTIL THE TEMPORARY TOP STRAND IS CUT AND THE BLOCKOUT FILLED WITH GROUT.
3. CUT STRANDS IN BLOCKOUTS. STRANDS MAY BE CUT BY USING A CUTTING TORCH AND MOVING THE FLAME BACK AND FORTH OVER THE LENGTH OF EXPOSED STRAND TO LET INDIVIDUAL WIRES BREAK ONE AT A TIME TO LESSEN THE SHOCK TO THE GIRDER. STRANDS SHALL BE RELEASED IN A SYMMETRICAL MANNER ABOUT THE GIRDER CENTERLINE STARTING WITH THOSE FURTHEST FROM THE CENTERLINE AND WORKING INWARDS. FOR POST-TENSIONED TEMPORARY TOP STRANDS, ACTIVELY RESTRAIN THE STRAND CHUCKS AT THE GIRDER ENDS DURING CUTTING.
4. WITHIN 24 HOURS OF CUTTING THE TEMPORARY STRANDS, FILL THE BLOCKOUTS WITH A GROUT CONFORMING TO STD. SPEC. 9-20.3(2). REMOVE ALL MOISTURE IN BLOCKOUTS PRIOR TO FILLING THEM WITH GROUT.

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TIME	7:11:20 PM			REGION NO. 10	STATE WASH	FED.AID PROJ.NO.		
DATE	1/31/2024							
PLOTTED BY				JOB NUMBER 23C508				
DESIGNED BY	K. YOUNG							
ENTERED BY	N. MORALES							
CHECKED BY	X. WU			CONTRACT NO.		LOCATION NO. XL6186		
PROJ. ENGR.	B. KRAMER							
REGIONAL ADM.	S. ROARK	REVISION	DATE					

KEVIN S. KIM — STATE OF WASHINGTON — 21924 — STRUCTURAL ENGINEER — PROFESSIONAL ENGINEER
SEE SHEET CT1 DATE
P.E. STAMP BOX

DATE
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Washington State Department of Transportation

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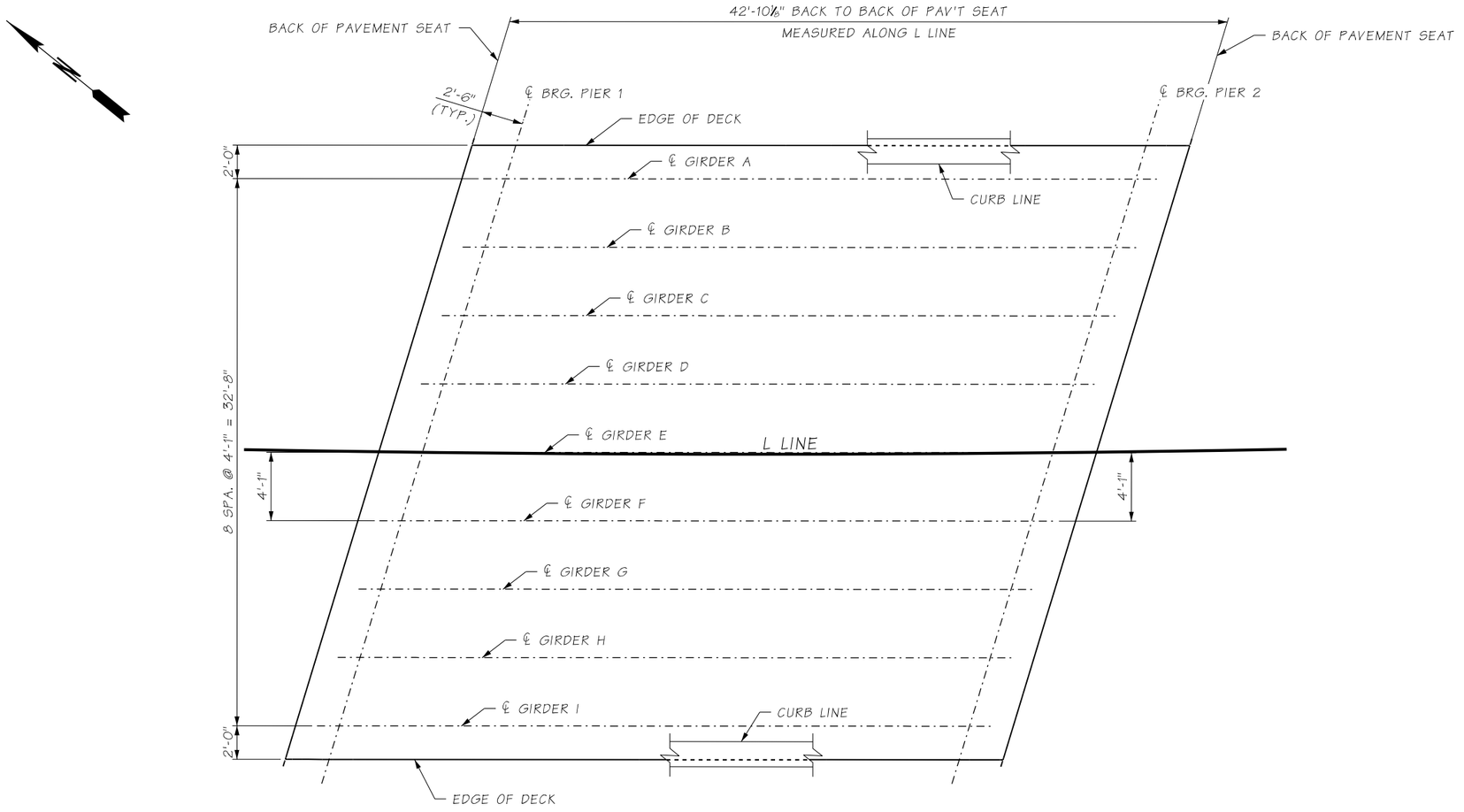
SR 302
VICTOR CREEK
REMOVE FISH BARRIER

SUPERSTRUCTURE CONSTRUCTION SEQUENCE

PLAN REF NO BG15

SHEET 65 OF 95 SHEETS



FRAMING PLAN

BEARING OF BOTH PIERS ARE N67°50'29"E
BEARING OF ALL GIRDERS ARE N39°02'22"W

	c:\users\lemkep\pw_wsdot\d0538122\XL6186_BG16.dgn			REGION NO. 10	STATE WASH	FED.AID PROJ.NO.	KEVIN S. KIM STATE OF WASHINGTON 21924 STRUCTURAL ENGINEER PROFESSIONAL ENGINEER	Washington State Department of Transportation	SR 302 VICTOR CREEK REMOVE FISH BARRIER	PLAN REF NO BG16
TIME	7:12:30 PM			JOB NUMBER 23C508			SEE SHEET CT1 DATE P.E. STAMP BOX	DATE P.E. STAMP BOX	Jacobs	BRIDGE FRAMING PLAN	SHEET 66 OF 95 SHEETS
DATE	1/31/2024										
PLOTTED BY				CONTRACT NO.	LOCATION NO. XL6186						
DESIGNED BY	K. YOUNG										
ENTERED BY	N. MORALES										
CHECKED BY	X. WU										
PROJ. ENGR.	B. KRAMER										
REGIONAL ADM.	S. ROARK	REVISION	DATE								

GIRDER SCHEDULE

SPAN	GIRDER	GIRDER HEIGHT H	GIRDER WIDTH W	PLAN LENGTH (ALONG GIRDER GRADE) (SEE GIRDER NOTE 1)	VOIDS		GIRDER END DETAILS				MIN. CONC. COMP. STRENGTH		PRESTRESSING STRANDS (SEE GIRDER NOTES 2-4)							"A" DIMENSION AT ℄ BEARINGS	DECK SCREED CAMBER C	MIDSPAN VERTICAL DEFLECTION D		TRANSVERSE REINFORCEMENT									LONGITUDINAL REINFORCEMENT				SHIPPING AND HANDLING DETAILS					
													ROW 1			ROW 2			TOP ROW				ZONE 1			ZONE 2			ZONE 3			G1		G2						
					NUMBER	DIAMETER	END 1 TYPE	END 2 TYPE	θ_1	θ_2	@ 28-DAYS f'_c (KSI)	@ RELEASE f'_{ci} (KSI)	PERMANENT STRANDS	EXTENDED NUMBER AND LENGTH	DEBONDED NUMBER AND LENGTH	PERMANENT STRANDS	EXTENDED NUMBER AND LENGTH	DEBONDED NUMBER AND LENGTH	PERMANENT STRANDS	TEMPORARY STRANDS			LOWER BOUND @ 40 DAYS	UPPER BOUND @ 120 DAYS	BAR SIZE	SPACING	LENGTH	BAR SIZE	SPACING	LENGTH	BAR SIZE	SPACING	LENGTH	BAR SIZE	NO. OF BARS	BAR SIZE	NO. OF BARS	MAXIMUM MIDSPAN VERTICAL DEFLECTION AT SHIPPING	L	L_1	L_2	K_θ MINIMUM SHIPPING SUPPORT ROTATIONAL SPRING CONSTANT (KIP-IN/RAD)	W_{cc} MINIMUM SHIPPING SUPPORT CNTR.-TO-CNTR. WHEEL SPACING
1	A	1'-6"	4'-0"	40'-5⅞"	3	9"	A	A	106.88	106.88	5.0	5.0	14	4 @ 1'-4"	-	-	-	-	2	2	6"	⅛"	⅜"	1"	#5	3"	1'-0"	#5	6"	4'-0"	#5	9"	6'-0"	#5	5	#5	5	⅞"	3'-0"	1'-6"	1'-6"	80,000	8'-0"
1	B	1'-6"	4'-0"	40'-5⅞"	3	9"	A	A	106.88	106.88	5.0	5.0	14	4 @ 1'-4"	-	-	-	-	2	2	6"	⅛"	⅜"	1"	#5	3"	1'-0"	#5	6"	4'-0"	#5	9"	6'-0"	#5	5	#5	5	⅞"	3'-0"	1'-6"	1'-6"	80,000	8'-0"
1	C	1'-6"	4'-0"	40'-5⅞"	3	9"	A	A	106.88	106.88	5.0	5.0	14	4 @ 1'-4"	-	-	-	-	2	2	6"	⅛"	⅜"	1"	#5	3"	1'-0"	#5	6"	4'-0"	#5	9"	6'-0"	#5	5	#5	5	⅞"	3'-0"	1'-6"	1'-6"	80,000	8'-0"
1	D	1'-6"	4'-0"	40'-5⅞"	3	9"	A	A	106.88	106.88	5.0	5.0	14	4 @ 1'-4"	-	-	-	-	2	2	6"	⅛"	⅜"	1"	#5	3"	1'-0"	#5	6"	4'-0"	#5	9"	6'-0"	#5	5	#5	5	⅞"	3'-0"	1'-6"	1'-6"	80,000	8'-0"
1	E	1'-6"	4'-0"	40'-5⅞"	3	9"	A	A	106.88	106.88	5.0	5.0	14	4 @ 1'-4"	-	-	-	-	2	2	6"	⅛"	⅜"	1"	#5	3"	1'-0"	#5	6"	4'-0"	#5	9"	6'-0"	#5	5	#5	5	⅞"	3'-0"	1'-6"	1'-6"	80,000	8'-0"
1	F	1'-6"	4'-0"	40'-5⅞"	3	9"	A	A	106.88	106.88	5.0	5.0	14	4 @ 1'-4"	-	-	-	-	2	2	6"	⅛"	⅜"	1"	#5	3"	1'-0"	#5	6"	4'-0"	#5	9"	6'-0"	#5	5	#5	5	⅞"	3'-0"	1'-6"	1'-6"	80,000	8'-0"
1	G	1'-6"	4'-0"	40'-5⅞"	3	9"	A	A	106.88	106.88	5.0	5.0	14	4 @ 1'-4"	-	-	-	-	2	2	6"	⅛"	⅜"	1"	#5	3"	1'-0"	#5	6"	4'-0"	#5	9"	6'-0"	#5	5	#5	5	⅞"	3'-0"	1'-6"	1'-6"	80,000	8'-0"
1	H	1'-6"	4'-0"	40'-5⅞"	3	9"	A	A	106.88	106.88	5.0	5.0	14	4 @ 1'-4"	-	-	-	-	2	2	6"	⅛"	⅜"	1"	#5	3"	1'-0"	#5	6"	4'-0"	#5	9"	6'-0"	#5	5	#5	5	⅞"	3'-0"	1'-6"	1'-6"	80,000	8'-0"
1	I	1'-6"	4'-0"	40'-5⅞"	3	9"	A	A	106.88	106.88	5.0	5.0	14	4 @ 1'-4"	-	-	-	-	2	2	6"	⅛"	⅜"	1"	#5	3"	1'-0"	#5	6"	4'-0"	#5	9"	6'-0"	#5	5	#5	5	⅞"	3'-0"	1'-6"	1'-6"	80,000	8'-0"

GIRDER NOTES

1. PLAN LENGTH SHALL BE INCREASED AS NECESSARY TO COMPENSATE FOR SHORTENING DUE TO PRESTRESS AND SHRINKAGE.
2. ALL STRANDS SHALL BE 0.6"ø AASHTO M203 GRADE 270 LOW RELAXATION STRANDS, JACKED TO 202.5 KSI (43.94 KIPS PER STRAND). STRANDS SHALL BE SYMMETRICAL ABOUT THE GIRDER CENTERLINE. EXTERIOR STRANDS IN EACH ROW SHALL BE FULLY BONDED.
3. SPACE EXTENDED STRANDS SYMMETRICALLY AND EVENLY ACROSS GIRDER WIDTH. STAGGER EXTENDED STRAND LOCATIONS WITH RESPECT TO GIRDERS IN ADJACENT SPANS.
4. DEBONDED STRANDS SHALL BE DEBONDED AT EACH GIRDER END FOR THE INDICATED LENGTH PARALLEL TO THE GIRDER CENTERLINE. DEBONDED STRANDS SHALL NOT BE EXTENDED PAST GIRDER ENDS. DEBONDED STRANDS SHALL BE SYMMETRICALLY PLACED ABOUT THE GIRDER CENTERLINE. DEBONDED LENGTHS OF PAIRS OF STRANDS THAT ARE SYMMETRICALLY POSITIONED ABOUT THE GIRDER CENTERLINE SHALL BE EQUAL.

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TIME	7:13:16 PM		
DATE	1/31/2024		
PLOTTED BY			
DESIGNED BY	K. YOUNG		
ENTERED BY	N. MORALES		
CHECKED BY	X. WU		
PROJ. ENGR.	B. KRAMER		
REGIONAL ADM.	S. ROARK	REVISION	DATE

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER 23C508		
CONTRACT NO.		LOCATION NO. XL6186

KEVIN S. KIM — STATE OF WASHINGTON — 21924 — STRUCTURAL ENGINEER — PROFESSIONAL ENGINEER

SEE SHEET CT1 DATE

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DATE

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Washington State Department of Transportation

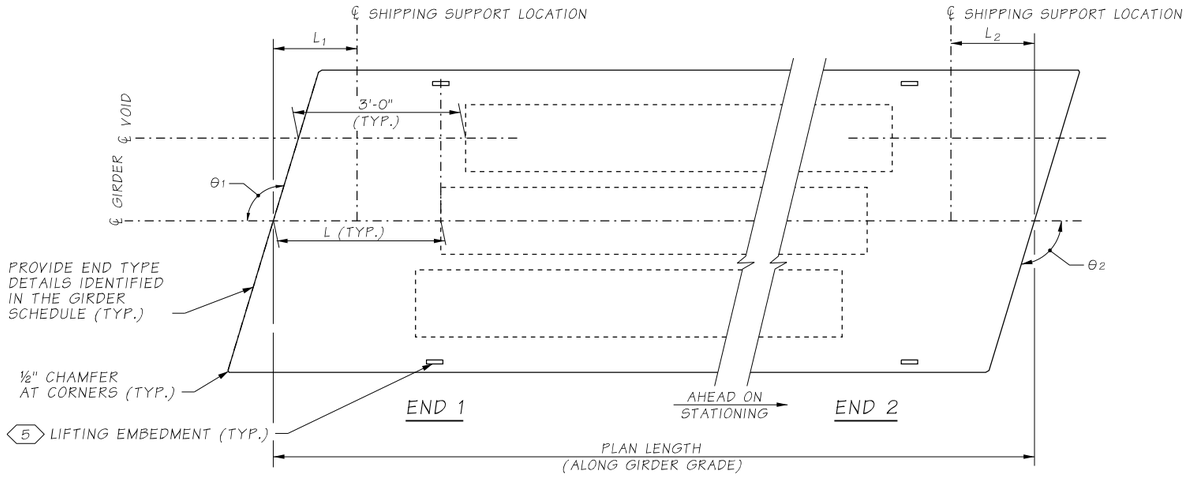
Jacobs

SR 302
VICTOR CREEK
REMOVE FISH BARRIER

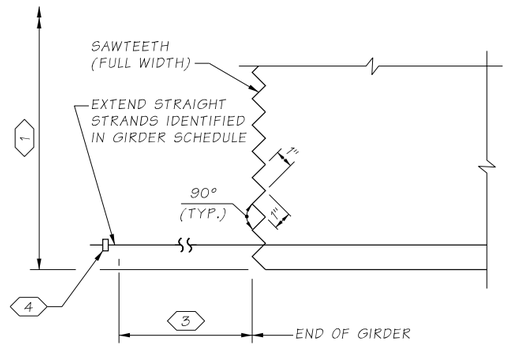
BRIDGE GIRDER DETAILS (1 OF 3)

PLAN REF NO BG17

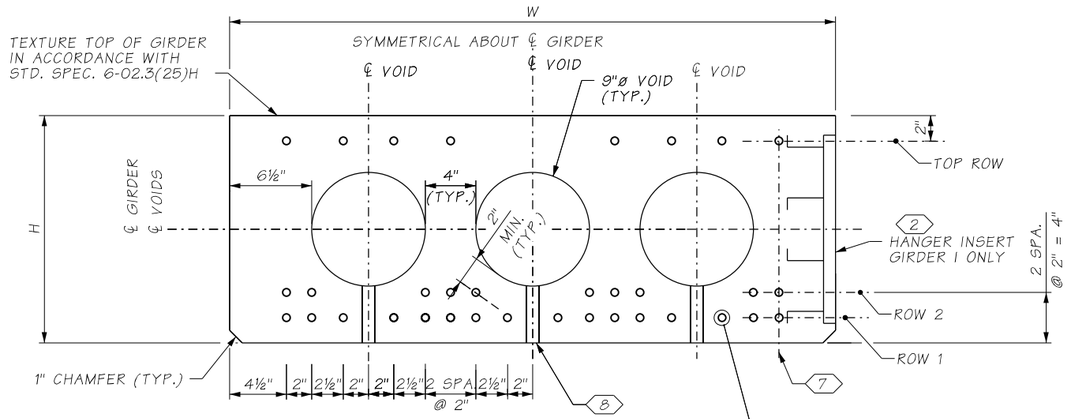
SHEET 67 OF 95 SHEETS



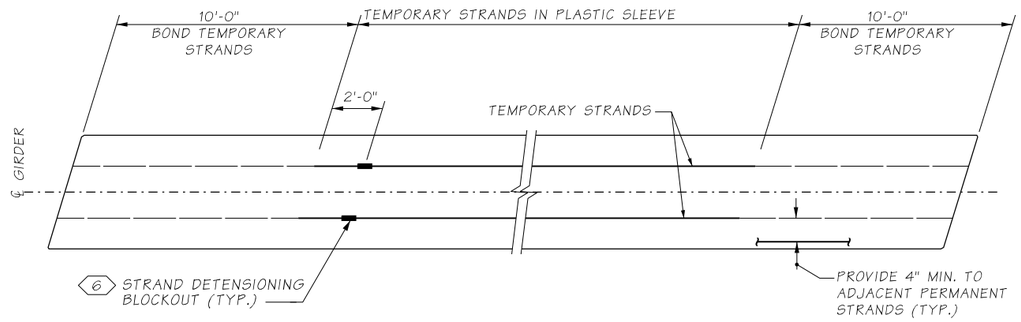
PLAN



END TYPE A



TYPICAL GIRDER SECTION



PLAN

TEMPORARY STRANDS

GIRDER NOTES:

1. SEE GIRDER SCHEDULE FOR REQUIRED NUMBER OF TEMPORARY STRANDS. TEMPORARY STRANDS SHALL BE PLACED IN THE TOP ROW.
2. FOR GIRDERS ERECTED ON A LONGITUDINAL GRADE, STRAND DETENSIONING BLOCKOUTS SHALL BE PLACED AT THE LOW END OF THE GIRDER.
3. SEE "TEMPORARY STRAND CUTTING SEQUENCE" ON CONSTRUCTION SEQUENCE SHEET FOR TEMPORARY STRAND DETENSIONING PROCEDURE.

NOTES:

1. CUT ALL STRANDS FLUSH WITH THE GIRDER END AND PAINT WITH AN APPROVED EPOXY RESIN, EXCEPT FOR EXTENDED STRANDS AS SHOWN.
2. SEE SHEET BG23 FOR DETAILS.
3. EXTENSION LENGTH PARALLEL TO ℄ GIRDER, 1'-4" FOR END TYPE A.
4. 1¹⁵⁄₁₆"ø MIN. STRAND CHUCK OR ASTM A108 2¾"ø x 1⅛" STRAND ANCHOR. ANCHOR STRAND WITH WEDGES BEFORE GIRDER ERECTION. VERIFY WEDGES ARE SEATED TIGHTLY IMMEDIATELY BEFORE PLACING DIAPHRAGM CONCRETE.
5. INSTALL LIFTING EMBEDMENTS IN ACCORDANCE WITH STD. SPEC. 6-02.3(25)L. REMOVE TO TOP OF GIRDER AFTER ERECTION.
6. 2½" x 6" x 2½" DEEP BLOCKOUT FOR STRAND DETENSIONING. FORM WITH EXPANDED POLYSTYRENE. REMOVE POLYSTYRENE JUST PRIOR TO CUTTING THE TEMPORARY STRANDS AND PREVENT MOISTURE FROM ENTERING THE BLOCKOUT AS DESCRIBED IN THE TEMPORARY STRAND CUTTING SEQUENCE.
7. EXTERIOR STRAND POSITIONS IN EACH ROW SHALL BE FILLED FIRST AND SHALL BE PERMANENT AND FULLY BONDED.
8. 1"ø POLYETHYLENE PIPE DRAIN AT BOTH ENDS OF EACH VOID. ENSURE WATER WITHIN VOID WILL DRAIN AFTER CASTING GIRDER.

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DESIGNED BY	K. YOUNG		
ENTERED BY	N. MORALES		
CHECKED BY	X. WU		
PROJ. ENGR.	B. KRAMER		
REGIONAL ADM.	S. ROARK	REVISION	DATE

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER		
23C508		
CONTRACT NO.		LOCATION NO.
		XL6186

KEVIN S. KIM — STATE OF WASHINGTON — 21624 — STRUCTURAL ENGINEER — PROFESSIONAL ENGINEER

SEE SHEET CT1 DATE

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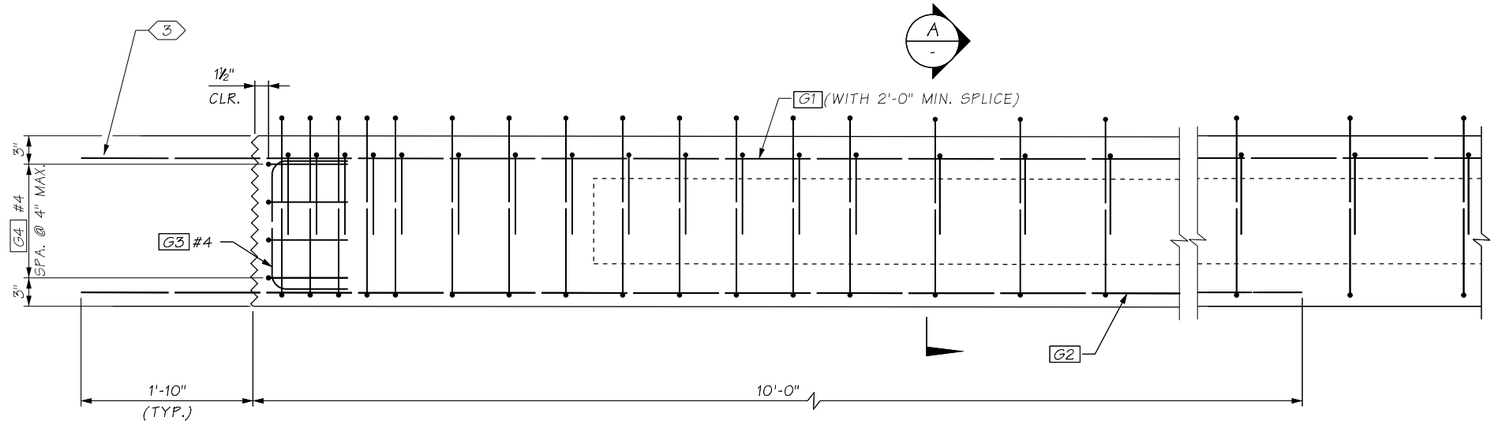
SR 302
VICTOR CREEK
REMOVE FISH BARRIER

BRIDGE GIRDER DETAILS (2 OF 3)

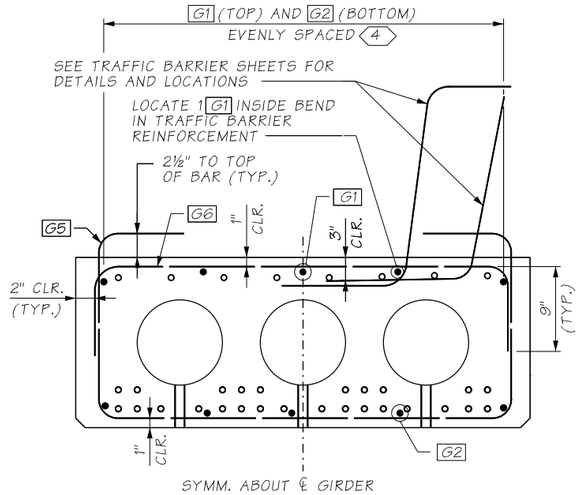
PLAN REF NO BG18

SHEET 68 OF 95 SHEETS



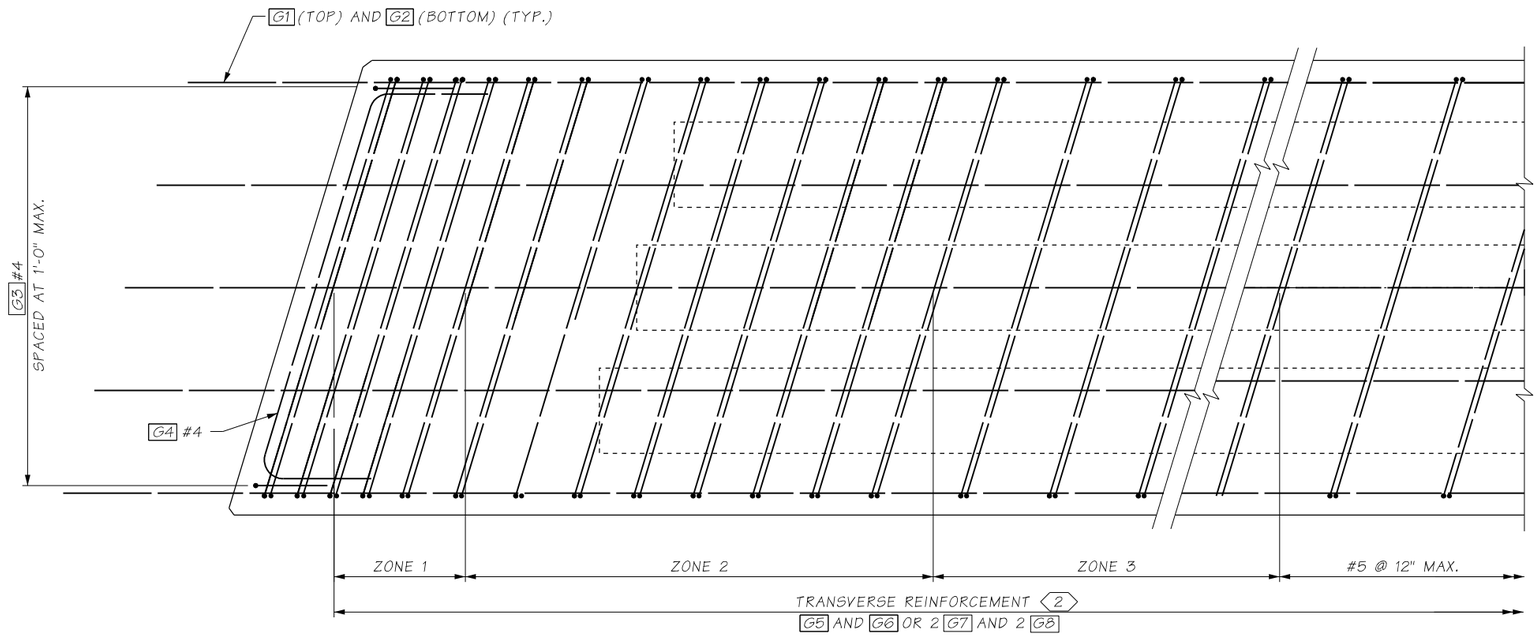
ELEVATION

STRANDS NOT SHOWN

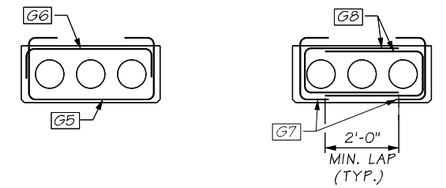


SECTION A - A

G5 AND G6 SHOWN, 2 G7 AND 2 G8 SIMILAR.



PLAN 1



TRANSVERSE REINFORCEMENT OPTIONS

REINFORCING NOTES:

1. DEFORMED WELDED WIRE REINFORCEMENT MAY BE SUBSTITUTED FOR MILD REINFORCEMENT IN ACCORDANCE WITH STANDARD SPECIFICATION 6-02.3(25)A.

NOTES:

1. TRAFFIC BARRIER BARS NOT SHOWN FOR CLARITY. SEE TRAFFIC BARRIER SHEETS FOR DETAILS AND LOCATIONS. OTHER END SIMILAR. STRANDS NOT SHOWN.
2. SEE GIRDER SCHEDULE FOR BAR SIZE AND SPACING AND LENGTH OF ZONES.
3. FIELD BEND G1 TO OBTAIN 1½" COVER AT PAVEMENT SEAT IF NECESSARY.
4. MAY BE BUNDLED IF SPACING DOES NOT EXCEED 1'-0". SEE GIRDER SCHEDULE.

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ENTERED BY	N. MORALES		
CHECKED BY	X. WU		
PROJ. ENGR.	B. KRAMER		
REGIONAL ADM.	S. ROARK	REVISION	DATE

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER		
23C508		
CONTRACT NO.		LOCATION NO.
		XL6186

KEVIN S. KIM — STATE OF WASHINGTON — 21624 — STRUCTURAL ENGINEER — PROFESSIONAL ENGINEER

SEE SHEET CT1

DATE

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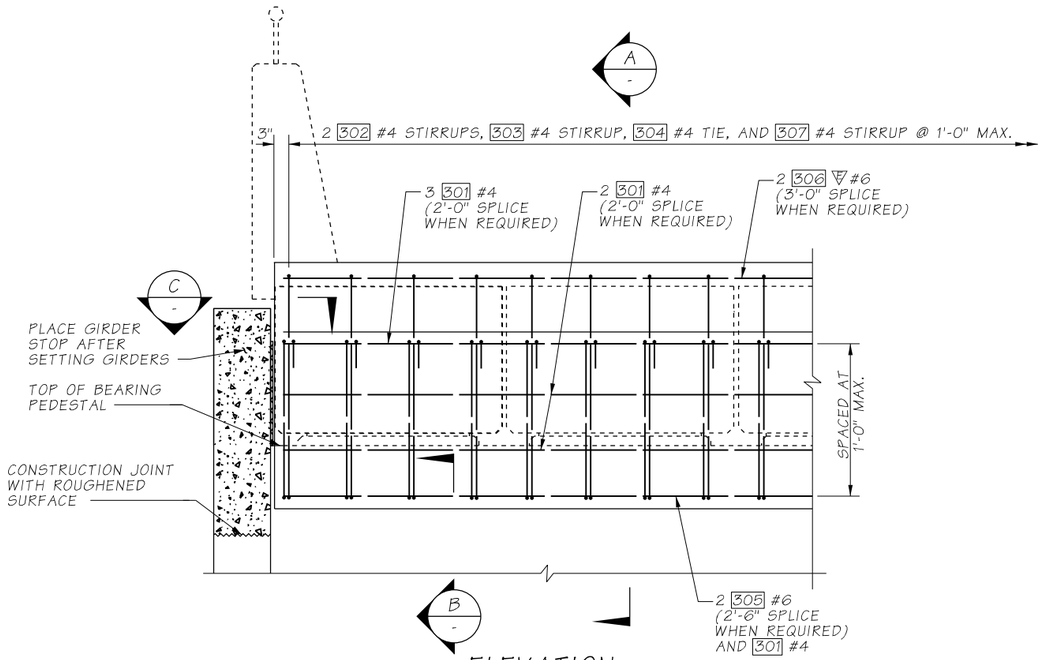
SR 302
VICTOR CREEK
REMOVE FISH BARRIER

BRIDGE GIRDER DETAILS (3 OF 3)

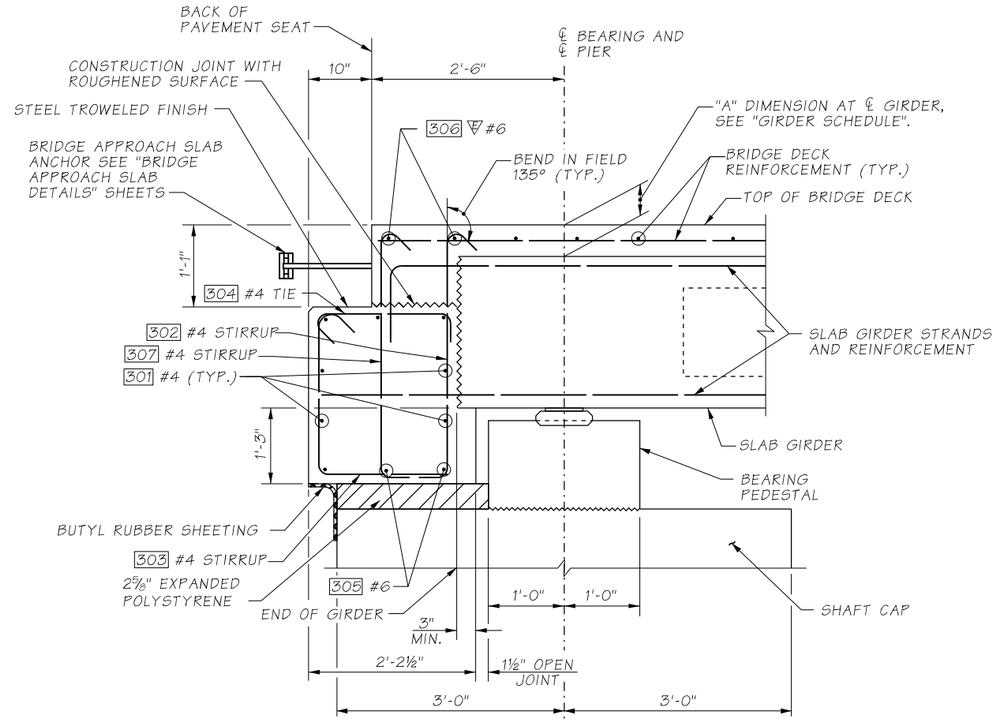
PLAN REF NO
BG19

SHEET 69 OF 95 SHEETS



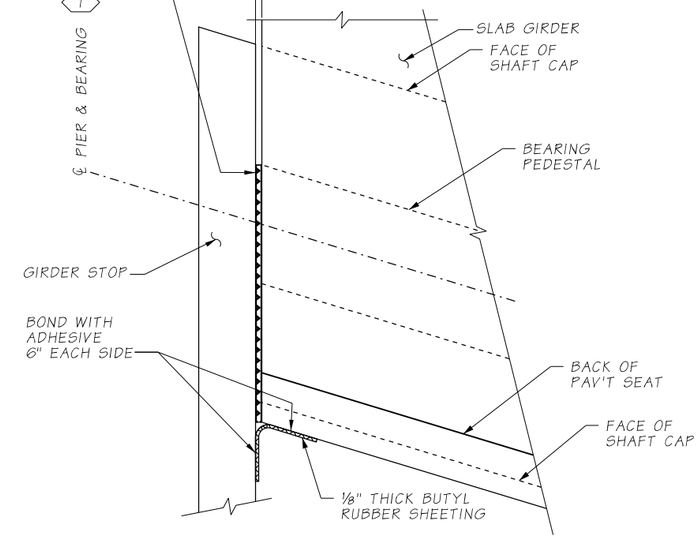
ELEVATION
END DIAPHRAGM

DIMENSIONS ARE PARALLEL TO ℄ PIER

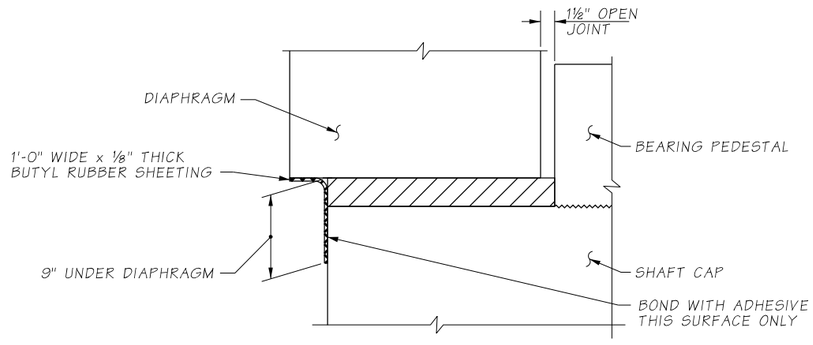


SECTION A

DIMENSIONS ARE NORMAL TO ℄ PIER



SECTION C



SECTION B

NOTE:

1 BOND TO GIRDER STOP WITH APPROVED ADHESIVE.

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ENTERED BY	N. MORALES		
CHECKED BY	X. WU		
PROJ. ENGR.	B. KRAMER		
REGIONAL ADM.	S. ROARK	REVISION	DATE

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER		
23C508		
CONTRACT NO.		LOCATION NO.
		XL6186

KEVIN S. KIM — STATE OF WASHINGTON — 21824 — STRUCTURAL ENGINEER — PROFESSIONAL ENGINEER

SEE SHEET CT1 DATE

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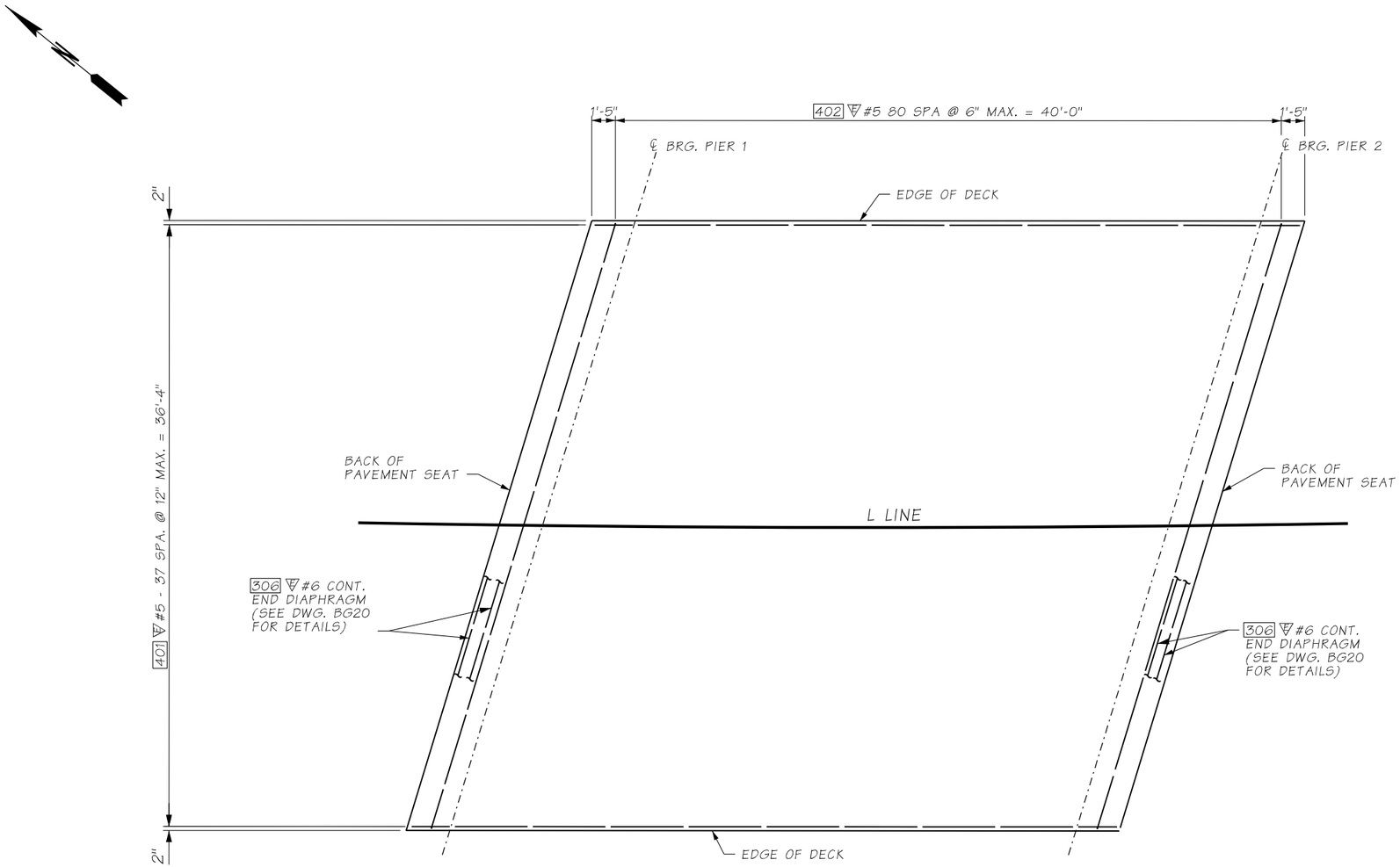
SR 302
VICTOR CREEK
REMOVE FISH BARRIER

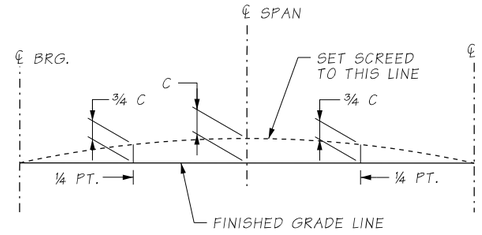
END DIAPHRAGM DETAILS

PLAN REF NO BG20

SHEET 70 OF 95 SHEETS



PLAN - BRIDGE DECK REINFORCING



SCREED SETTING DIMENSIONS

FOR DIMENSION "C" SEE GIRDER SCHEDULE

NOTES:

1. MINIMUM LAP SPLICES ARE AS FOLLOWS, UNLESS NOTED OTHERWISE:
   #4 = 2'-0"
   #5 = 2'-6"
   #6 = 3'-0"
2. LOCATION OF SPLICES AT CONTRACTORS OPTION, UNLESS NOTED OTHERWISE.
3. ALL SPLICES SHALL BE STAGGERED SO NOT MORE THAN 50% OF REBAR IS SPLICED AT THE SAME LOCATION.
4. PROVIDE A LONGITUDINAL 403 #4 IN CIP DECK INSIDE EXTENDED G5 AND G7 SLAB GIRDER STIRRUP IN ADDITION TO DECK REINFORCEMENT.

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DESIGNED BY	K. YOUNG			23C508			
ENTERED BY	N. MORALES			CONTRACT NO.		LOCATION NO.	
CHECKED BY	X. WU					XL6186	
PROJ. ENGR.	B. KRAMER						
REGIONAL ADM.	S. ROARK	REVISION	DATE				

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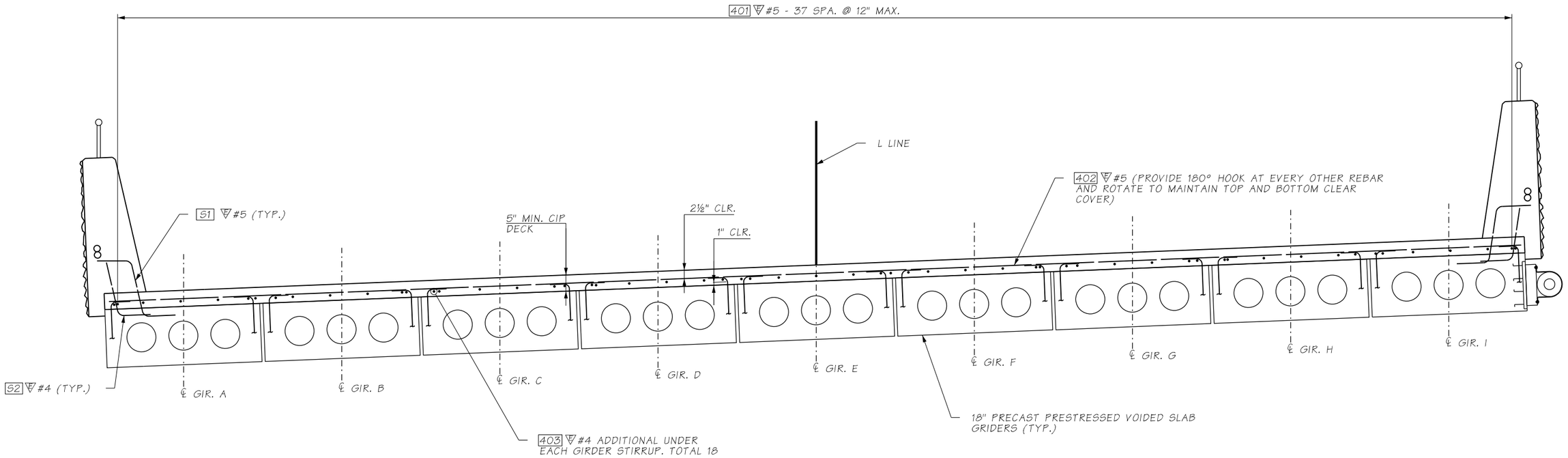
SR 302
VICTOR CREEK
REMOVE FISH BARRIER

BRIDGE DECK REINFORCING PLAN

PLAN REF NO
BG21

SHEET 71 OF 95 SHEETS



SECTION - TYPICAL DECK REINFORCING

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DATE	1/31/2024						
PLOTTED BY				JOB NUMBER 23C508			
DESIGNED BY	K. YOUNG						
ENTERED BY	N. MORALES			CONTRACT NO.		LOCATION NO. XL6186	
CHECKED BY	X. WU						
PROJ. ENGR.	B. KRAMER						
REGIONAL ADM.	S. ROARK	REVISION	DATE				

KEVIN S. KIM — STATE OF WASHINGTON — 21624 — STRUCTURAL ENGINEER — PROFESSIONAL ENGINEER

SEE SHEET CT1 DATE

P.E. STAMP BOX

DATE

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SR 302
VICTOR CREEK
REMOVE FISH BARRIER

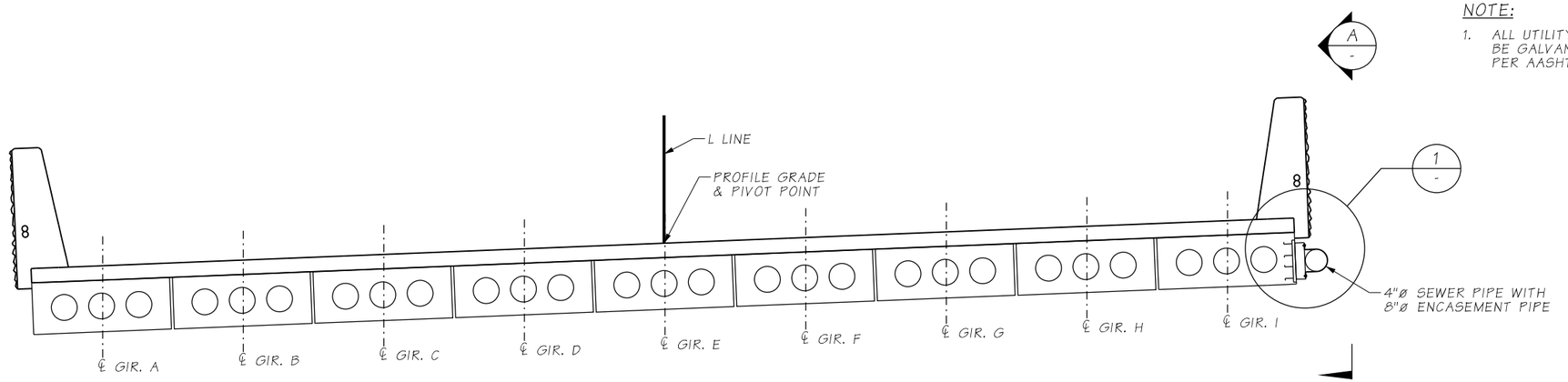
BRIDGE DECK REINFORCEMENT SECTION

PLAN REF NO BG22

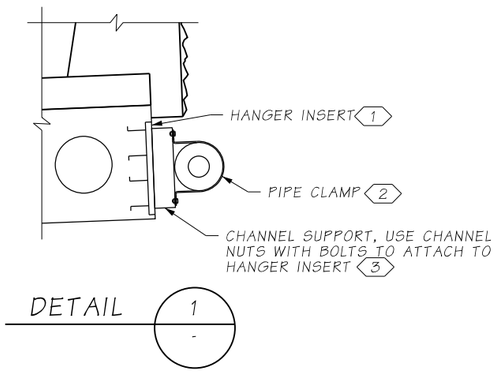
SHEET 72 OF 95 SHEETS

NOTE:

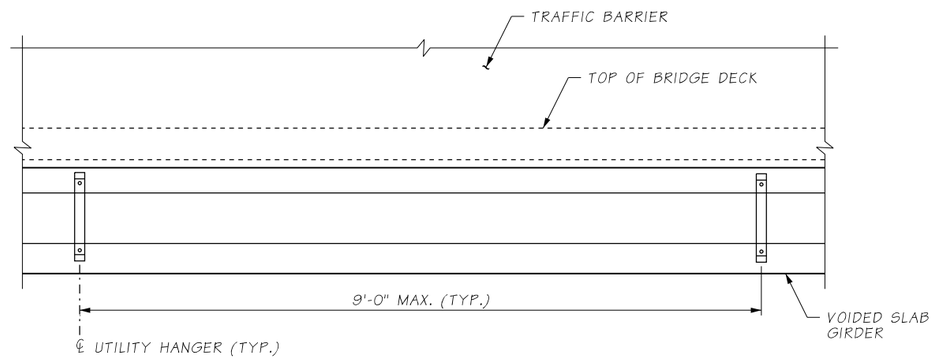
1. ALL UTILITY HANGER MATERIALS SHALL BE GALVANIZED AFTER FABRICATION PER AASHTO M 111 OR AASHTO M 232.



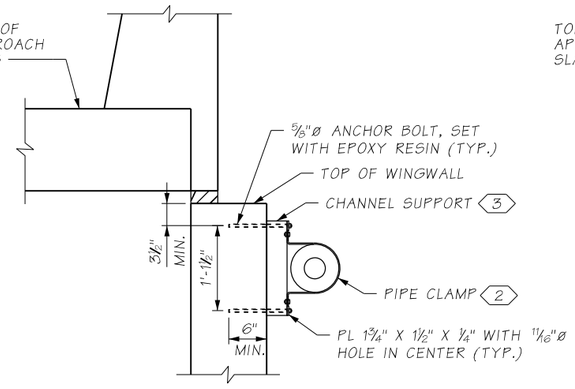
UTILITY HANGER SUPPORT



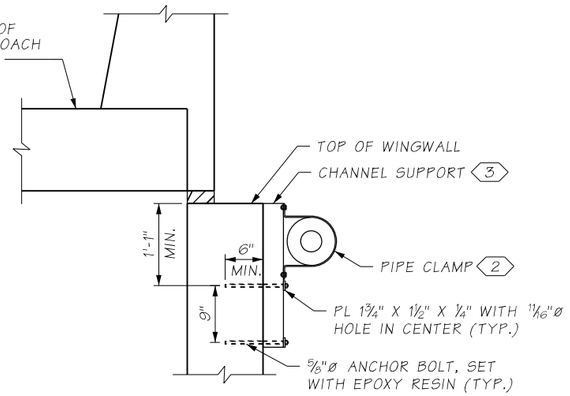
DETAIL 1 -



VIEW A -



SEWER PIPE BOLTED CONNECTION ON NW WINGWALL



SEWER PIPE BOLTED CONNECTION ON SW WINGWALL

NOTES:

1. COOPER B-LINE B22, POWERSTRUT PS 349, OR UNISTRUT P32XX. PLACE INSERT TO PROVIDE FOR TRANSVERSE ADJUSTMENT OF PIPE CLAMP. PIPE CLAMP BOLTS SHALL NOT BE WITHIN 2" OF THE END OF THE INSERT.
2. EATON B2400-8, UNISTRUT P2558-80, OR APPROVED EQUAL W/BOLTS AND SPRING NUTS.
3. EATON B-LINE B11K06, POWERSTRUT PS100K06, OR APPROVED EQUAL

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TIME	5:40:15 PM		
DATE	2/5/2024		
PLOTTED BY			
DESIGNED BY	K. YOUNG		
ENTERED BY	N. MORALES		
CHECKED BY	X. WU		
PROJ. ENGR.	B. KRAMER		
REGIONAL ADM.	S. ROARK	REVISION	DATE

REGION NO.	STATE
10	WASH

JOB NUMBER 23C508

CONTRACT NO.

FED.AID PROJ.NO.

LOCATION NO. XL6186

KEVIN S. KIM — STATE OF WASHINGTON — 21824 — PROFESSIONAL ENGINEER

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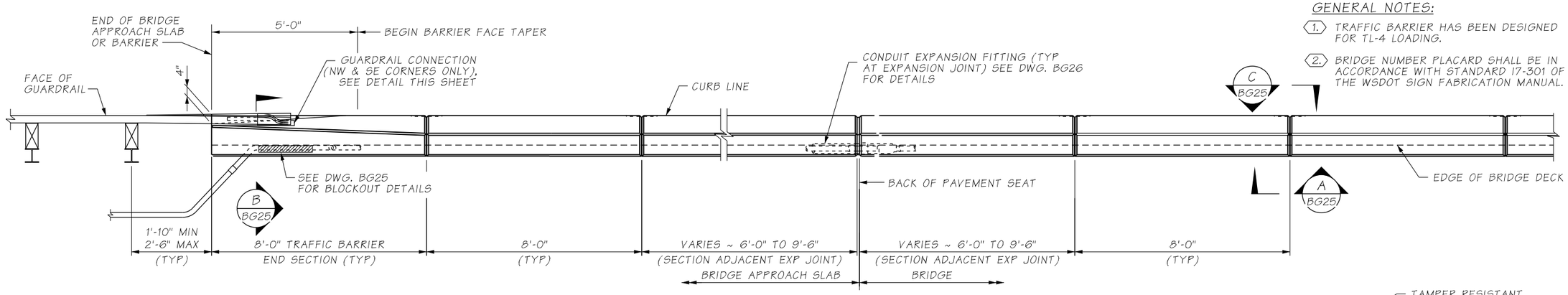
SR 302
VICTOR CREEK
REMOVE FISH BARRIER

UTILITY HANGER DETAILS

PLAN REF NO BG23

SHEET 73 OF 95 SHEETS

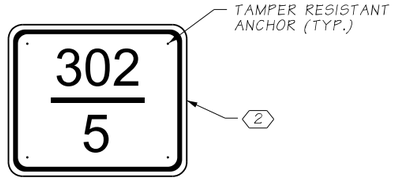


PLAN - RIGHT TRAFFIC BARRIER

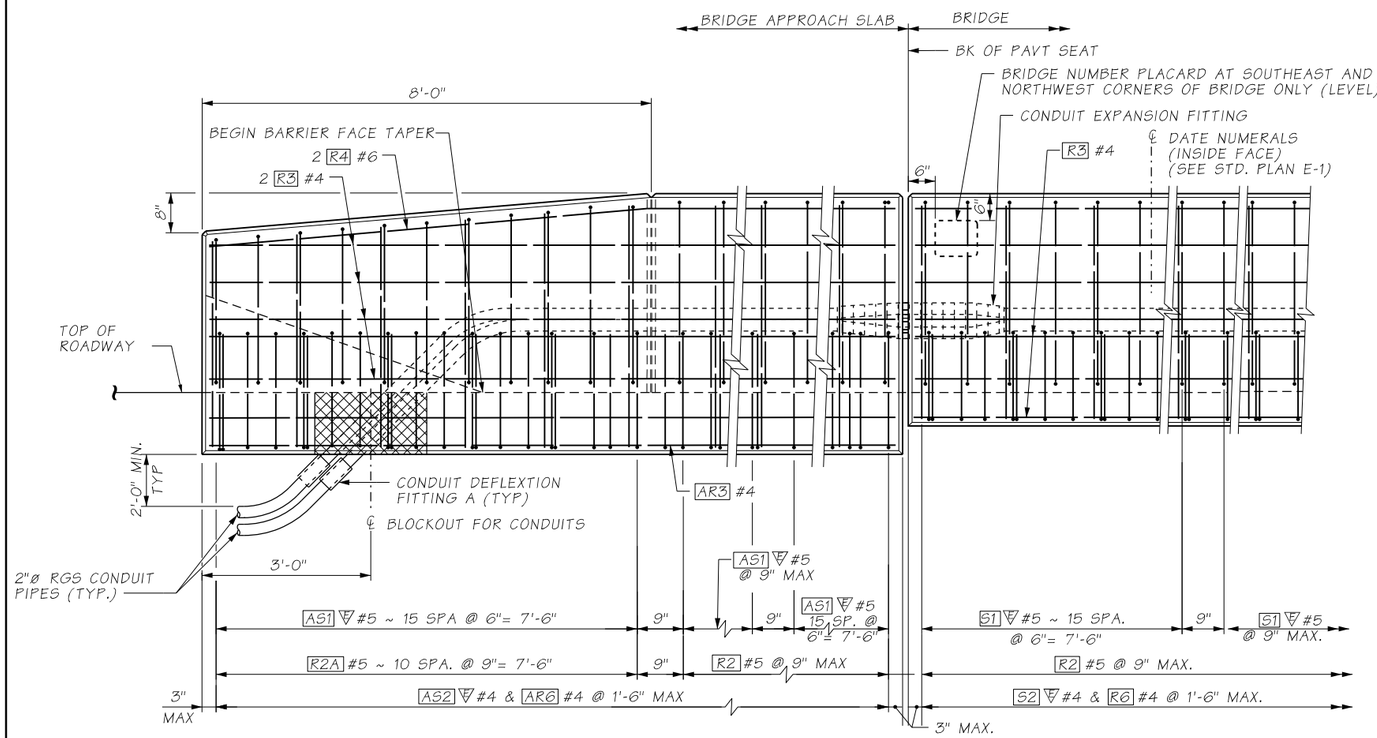
BARRIER CONTINUOUS BETWEEN BRIDGE DECK EXPANSION JOINTS.
CONSTRUCTION JOINTS WITH SHEAR KEYS ARE PERMISSIBLE AT DUMMY JOINT LOCATIONS.
FORM JOINTS BETWEEN DUMMY JOINTS SHALL NOT BE PERMITTED.

GENERAL NOTES:

1. TRAFFIC BARRIER HAS BEEN DESIGNED FOR TL-4 LOADING.
2. BRIDGE NUMBER PLACARD SHALL BE IN ACCORDANCE WITH STANDARD I7-301 OF THE WSDOT SIGN FABRICATION MANUAL.

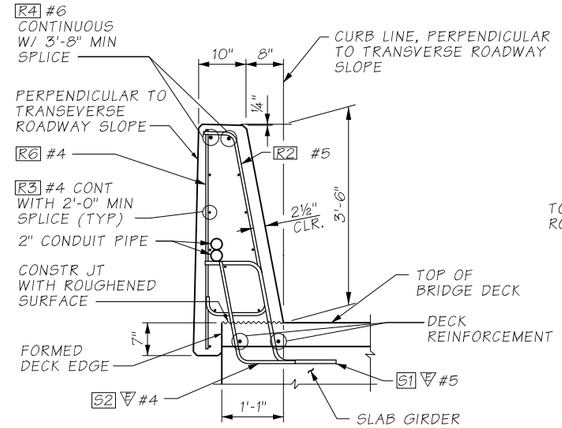


BRIDGE NUMBER PLACARD



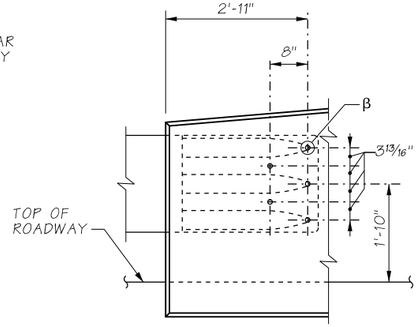
OUTSIDE ELEVATION
END OF TRAFFIC BARRIER

SHOWN WITH BRIDGE APPROACH SLAB



TYPICAL SECTION
TRAFFIC BARRIER

SHOWN ON BRIDGE
SEE DWG. BG25 (SECTION B)
FOR BARRIER ON APPROACH SLAB



THRIE BEAM END SECTION
DESIGN "F" (SEE STD. PLAN C-7a)

OUTSIDE ELEVATION
TRAFFIC BARRIER - GUARDRAIL CONNECTION

(WHERE SHOWN ON LAYOUT)

β PROVIDE ⅞"ø ROCKET/KOHLER F-50, LANCASTER MALLEABLE, OR DAYTON/RICHMOND F-62 FLARED THIN SLAB FERRULE INSERTS OR APPROVED EQUAL (TYP.). RESIN-BONDED ANCHORS MAY BE SUBSTITUTED.

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PLOTTED BY			
DESIGNED BY	K. YOUNG		
ENTERED BY	N. MORALES		
CHECKED BY	X. WU		
PROJ. ENGR.	B. KRAMER		
REGIONAL ADM.	S. ROARK	REVISION	DATE

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER		
23C508		
CONTRACT NO.		LOCATION NO.
		XL6186

KEVIN S. KIM — STATE OF WASHINGTON — 21624 — STRUCTURAL ENGINEER — PROFESSIONAL ENGINEER

SEE SHEET CT1 DATE

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DATE

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Washington State Department of Transportation

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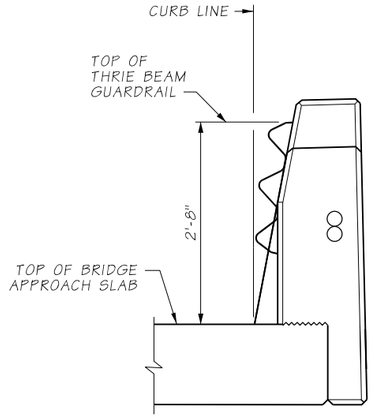
SR 302
VICTOR CREEK
REMOVE FISH BARRIER

TRAFFIC BARRIER - SINGLE SLOPE 42" DETAILS (1 OF 3)

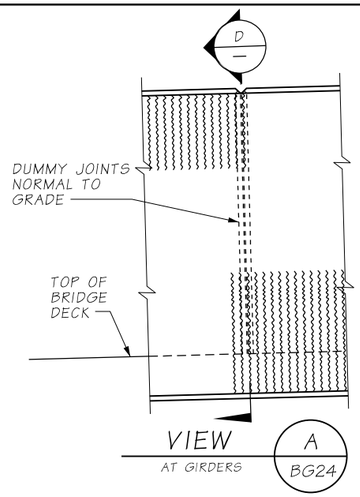
PLAN REF NO
BG24

SHEET	OF	SHEETS
74	95	

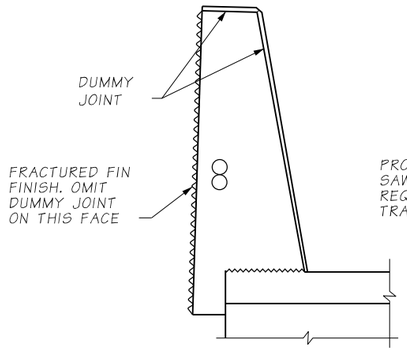


END SECTION

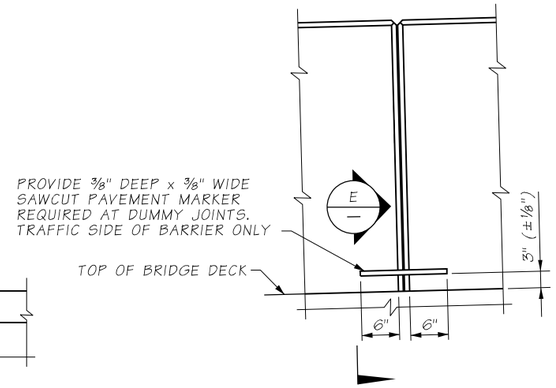
THRIE BEAM SHOWN WITH "D" CONNECTION OR "F" CONNECTION (SEE STD. PLAN C-7a)



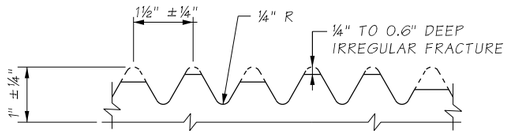
VIEW A — AT GIRDERS — BG24



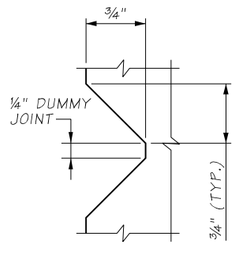
SECTION D -



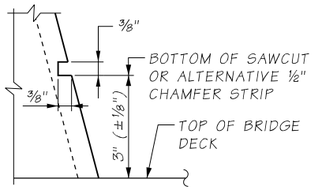
VIEW C — BG24



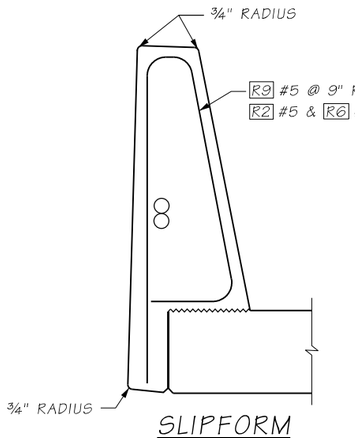
FRACTURE FIN FINISH



DUMMY JOINT DETAIL

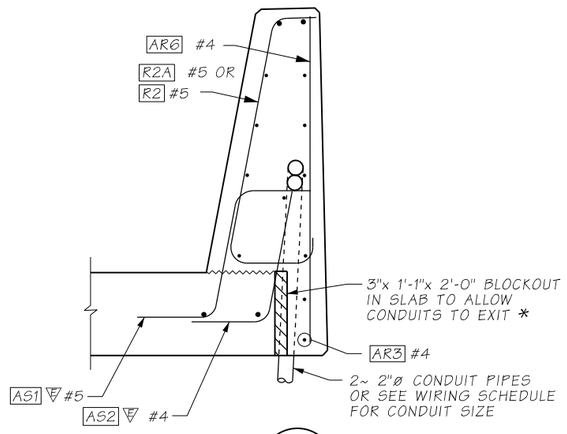


SECTION E — PAVEMENT MARKER DETAIL



SLIPFORM ALTERNATIVE

SEE SHEET BG20 "TYPICAL SECTION - TRAFFIC BARRIER" FOR ADDITIONAL DETAILS.



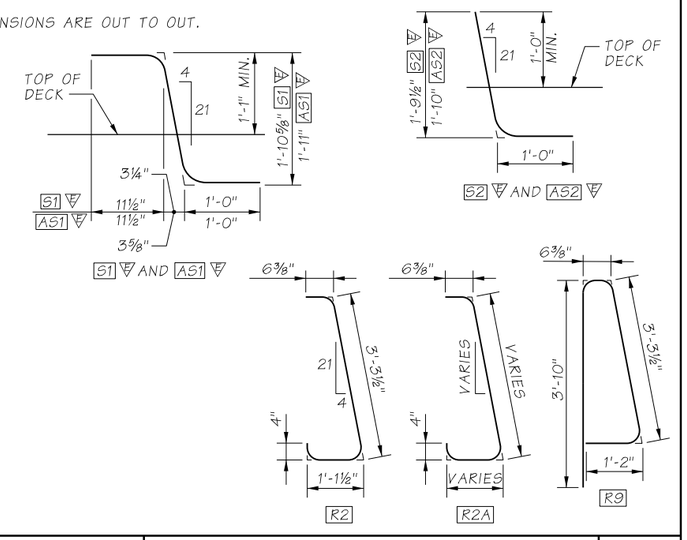
SECTION B — BRIDGE APPROACH SLAB — BG24

FOR DETAILS NOT SHOWN SEE "OUTSIDE ELEVATION" AND TYPICAL SECTION - TRAFFIC BARRIER

* BLOCKOUT WIDTH MAY BE INCREASED TO 6" TO ALLOW CONDUITS OF A LARGER DIAMETER THAN 2" TO EXIT BARRIER OR WALL WITHOUT REBAR STEEL CONFLICT.

BENDING DIAGRAM

ALL DIMENSIONS ARE OUT TO OUT.



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PLOTTED BY						
DESIGNED BY	K. YOUNG					
ENTERED BY	N. MORALES					
CHECKED BY	X. WU					
PROJ. ENGR.	B. KRAMER					
REGIONAL ADM.	S. ROARK	REVISION	DATE			

KEVIN S. KIM — STATE OF WASHINGTON — 21624 — STRUCTURAL ENGINEER — PROFESSIONAL ENGINEER

SEE SHEET CT1 — DATE — P.E. STAMP BOX

DATE — P.E. STAMP BOX

Washington State Department of Transportation

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SR 302 VICTOR CREEK REMOVE FISH BARRIER

TRAFFIC BARRIER - SINGLE SLOPE 42" DETAILS (2 OF 3)

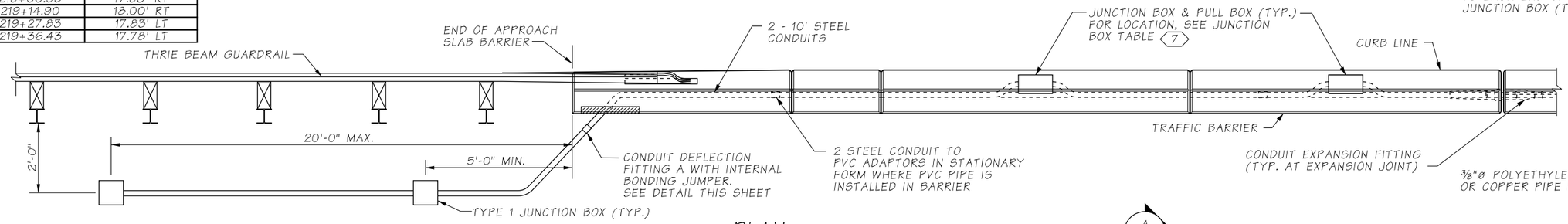
PLAN REF NO BG25

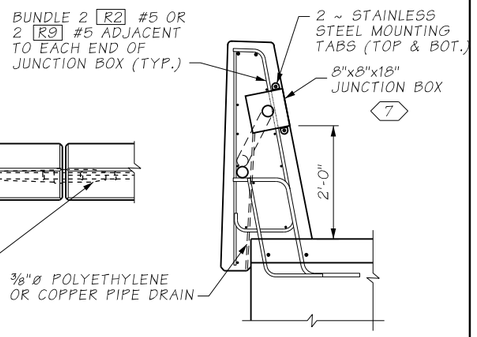
SHEET 75 OF 95 SHEETS

JUNCTION BOX LOCATIONS	
STATION	OFFSET
L 218+56.42	18.36' RT
L 218+64.82	18.18' RT
L 218+65.55	17.90'LT
L 218+75.11	17.98' LT
L 219+06.98	17.93' RT
L 219+14.90	18.00' RT
L 219+27.83	17.83' LT
L 219+36.43	17.78' LT

JUNCTION BOX LOCATIONS SHOWN ARE APPROXIMATE. CENTER JUNCTION BOX INSTALLATION BETWEEN BARRIER DUMMY JOINTS.

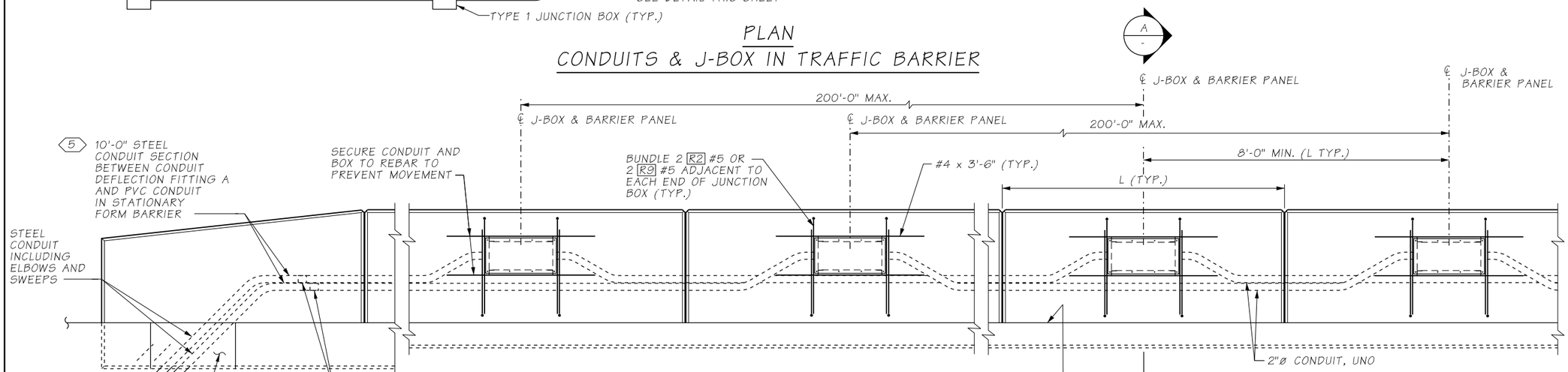
INSTALL ALL CONDUIT RUNS TO DRAIN TO A BRIDGE END OR PROVIDE DRAIN AT ALL LOW POINTS IN CONDUIT RUN ON BRIDGE.





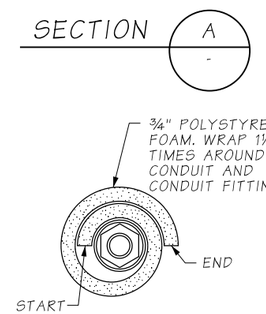
SECTION A -

PLAN
CONDUITS & J-BOX IN TRAFFIC BARRIER

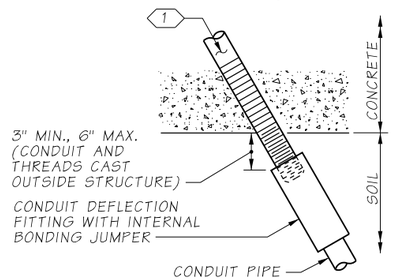


ELEVATION - RIGHT TRAFFIC BARRIER
CONDUITS & J-BOX IN BARRIER

4

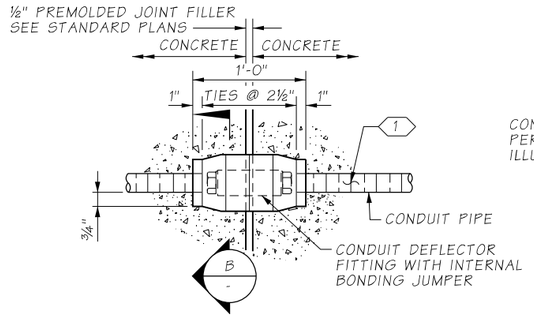


SECTION B -



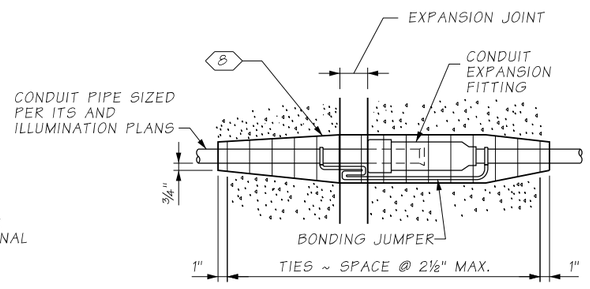
CONDUIT DEFLECTION FITTING A

CONDUIT FITTING - TYPE DX FOR DEFLECTION OF 30° AND ¾" MOVEMENT. 2



CONDUIT DEFLECTION FITTING B

CONDUIT FITTING - TYPE DX FOR DEFLECTION OF 30° AND ¾" MOVEMENT. 3



CONDUIT EXPANSION FITTING

CONDUIT FITTING - (TYPE AX FOR MOVEMENT OF ± 2") AT BRIDGE EXPANSION JOINTS

NOTES:

1. WHERE CONDUIT IN A STRUCTURE IS ROUTED ACROSS A JOINT, WRAP STEEL CONDUIT PIPE FOR 1'-0" ON EACH SIDE OF JOINT. PIPE WRAP TAPE SHALL BE 2" WIDE, 20 MIL THICK, AND INSTALLED WITH A MINIMUM OF 1" OVERLAP
2. PLACE AT CONDUIT PIPE EXIT FROM STRUCTURE AND SHALL BE IN NEUTRAL STATE AFTER INSTALLATION.
3. CONDUIT PIPES PLACED THROUGH RETAINING WALL TRAFFIC BARRIER SHALL BE FITTED WITH DEFLECTION FITTINGS AT MAXIMUM SPACING OF 120' THE DEFLECTION FITTINGS SHALL BE PLACED AT THE TRAFFIC BARRIER OPEN JOINT THAT COINCIDES WITH THE RETAINING WALL EXPANSION JOINT.
4. ADJACENT JUNCTION BOXES ARE SHOWN CENTERED BETWEEN ADJACENT DUMMY JOINTS. IF THE DISTANCE BETWEEN ADJACENT DUMMY JOINTS IS 16'-0" OR GREATER, PLACE ADJACENT JUNCTION BOXES SYMMETRICALLY ON EITHER SIDE OF THE CENTER OF ONE DUMMY PANEL WHILE MAINTAINING 8'-0" MINIMUM BETWEEN CENTER LINES OF THE JUNCTION BOXES.
5. TERMINATE STEEL CONDUIT IN JUNCTION BOX IF LESS THAN 10'-0" FROM ELBOW OR SWEEP.
6. INSTALL ONLY WHERE CONDUIT IS HORIZONTAL.
7. NEMA 4X IN STATIONARY FORM BARRIER OR NEMA 3R IN SLIP FORM BARRIER. MOUNT JUNCTION BOX SO COVER IS FLUSH WITH BARRIER CAN BE RECESSED UP TO ⅛".
8. 3'-0" LONG EXPANDED POLYSTYRENE SLEEVE AROUND CONDUIT. DUCT TAPE SEAMS AND ENDS TO SEAL AND PREVENT CONCRETE FROM BONDING WITH FITTING AND CONDUIT.

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TIME	7:26:08 PM		
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DESIGNED BY	K. YOUNG		
ENTERED BY	N. MORALES		
CHECKED BY	X. WU		
PROJ. ENGR.	B. KRAMER		
REGIONAL ADM.	S. ROARK	REVISION	DATE

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER	23C508	
CONTRACT NO.		LOCATION NO. XL6186

KEVIN S. KIM — STATE OF WASHINGTON — 21624 — STRUCTURAL ENGINEER — PROFESSIONAL ENGINEER

SEE SHEET CT1 DATE

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DATE

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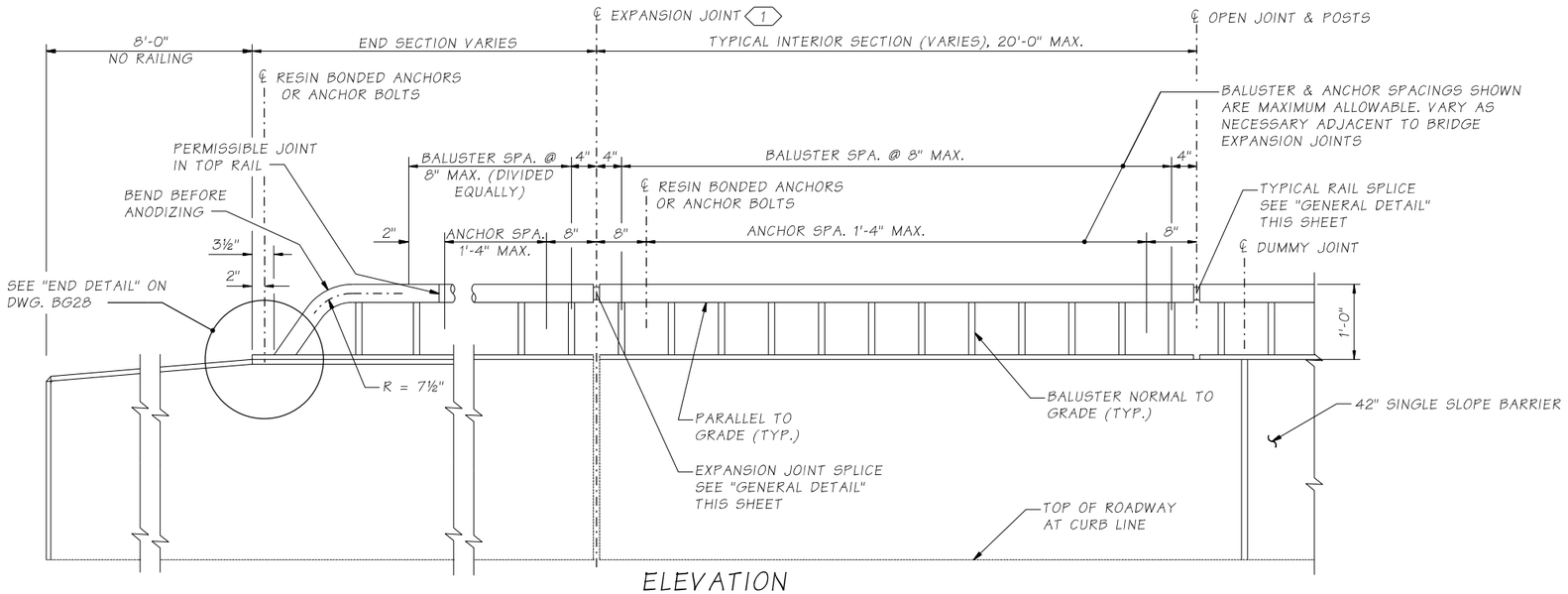
SR 302
VICTOR CREEK
REMOVE FISH BARRIER

TRAFFIC BARRIER - SINGLE SLOPE 42" DETAILS (3 OF 3)

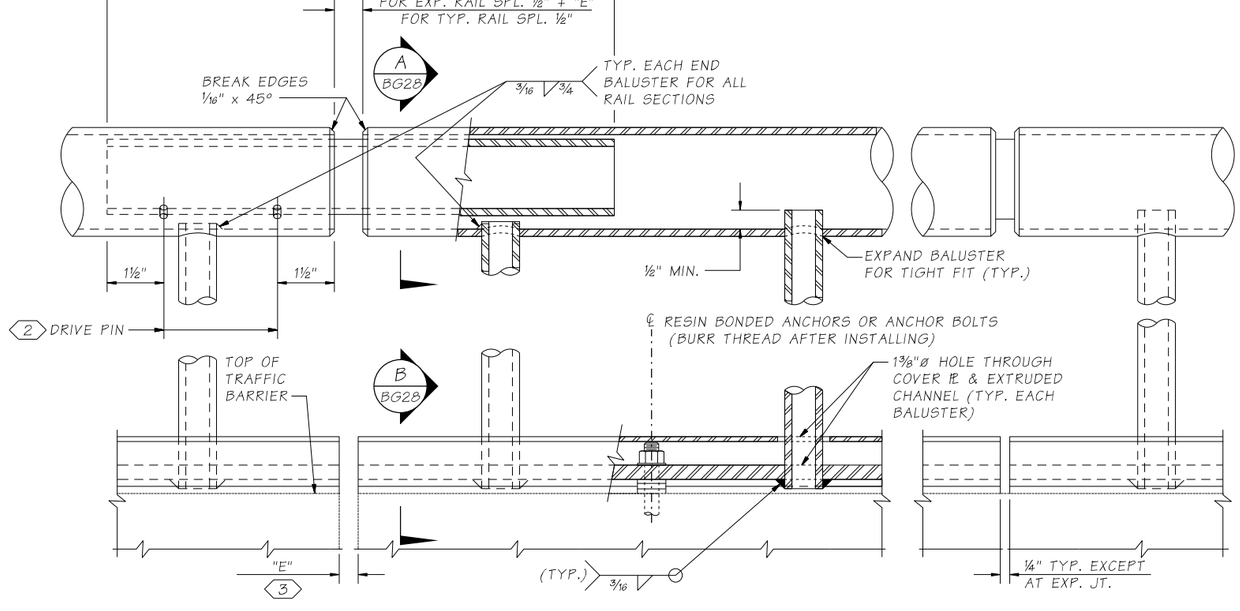
PLAN REF NO BG26

SHEET 76 OF 95 SHEETS



ELEVATION

BALUSTER AND GUARDRAIL SECTION ATTACHMENT DETAILS NOT SHOWN.



GENERAL DETAIL

NOTES:

1. PIPE RAILING, PIPE RAILING SPLICES, COVER PLATES AND BOTTOM EXTRUDED CHANNELS SHALL BE BENT TO THE HORIZONTAL CURVE WHERE THE RADIUS OF CURVATURE IS LESS THAN 200'. THESE ITEMS MAY BE HEATED TO NOT MORE THAN 400°F FOR A PERIOD NOT TO EXCEED 30 MINUTES TO FACILITATE FORMING OR BENDING TO HORIZONTAL CURVATURE.
2. SHOP DRAWINGS OF RAILING SHALL BE SUBMITTED AS A TYPE 2 WORKING DRAWING SHOWING COMPLETE DIMENSIONS AND DETAILS OF FABRICATION AND INCLUDING AN ERECTION DIAGRAM. MATERIAL SPECIFICATIONS SHALL BE PROVIDED IN THE SHOP DRAWINGS FOR ALL COMPONENTS.
3. CUTTING SHALL BE DONE BY SAWING OR MILLING AND ALL CUTS SHALL BE TRUE AND SMOOTH. FLAME CUTTING WILL NOT BE PERMITTED.
4. WELDING OF ALUMINUM SHALL CONFORM TO STD. SPEC. SECTION 9-28.14(3).
5. ALL ALUMINUM PARTS SHALL BE GIVEN A CLEAR ANODIC COATING OF AT LEAST 0.0006" THICK AND SEALED TO MEET THE REQUIREMENTS OF ASTM B 580 WITH A UNIFORM FINISH.
6. PIPE RAILING, PIPE BALUSTERS AND PIPE RAILING SPLICES SHALL BE ADEQUATELY WRAPPED TO INSURE SURFACE PROTECTION DURING HANDLING AND TRANSPORTATION TO THE JOB SITE.

KEY NOTES:

1. PROVIDE EXPANSION RAIL SPLICE AT TRAFFIC BARRIER EXPANSION JOINTS. RAIL SPLICE JOINTS ARE NOT REQUIRED AT TRAFFIC BARRIER DUMMY JOINTS.
2. LOCATE ON OPPOSITE SIDE OF TRAFFIC. DRIVE PINS SHALL BE DRIVEN FLUSH WITH THE OUTSIDE FACE OF THE RAILING.
3. "E" DIMENSION SHALL BE EQUAL TO OPENING OF TRAFFIC BARRIER EXPANSION JOINTS.

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TIME	7:27:04 PM		
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PLOTTED BY			
DESIGNED BY	K. YOUNG		
ENTERED BY	N. MORALES		
CHECKED BY	X. WU		
PROJ. ENGR.	B. KRAMER		
REGIONAL ADM.	S. ROARK	REVISION	DATE

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER	23C508	
CONTRACT NO.		LOCATION NO. XL6186

KEVIN S. KIM — STATE OF WASHINGTON — 21624 — STRUCTURAL ENGINEER — PROFESSIONAL ENGINEER

SEE SHEET CT1 DATE
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SR 302
VICTOR CREEK
REMOVE FISH BARRIER

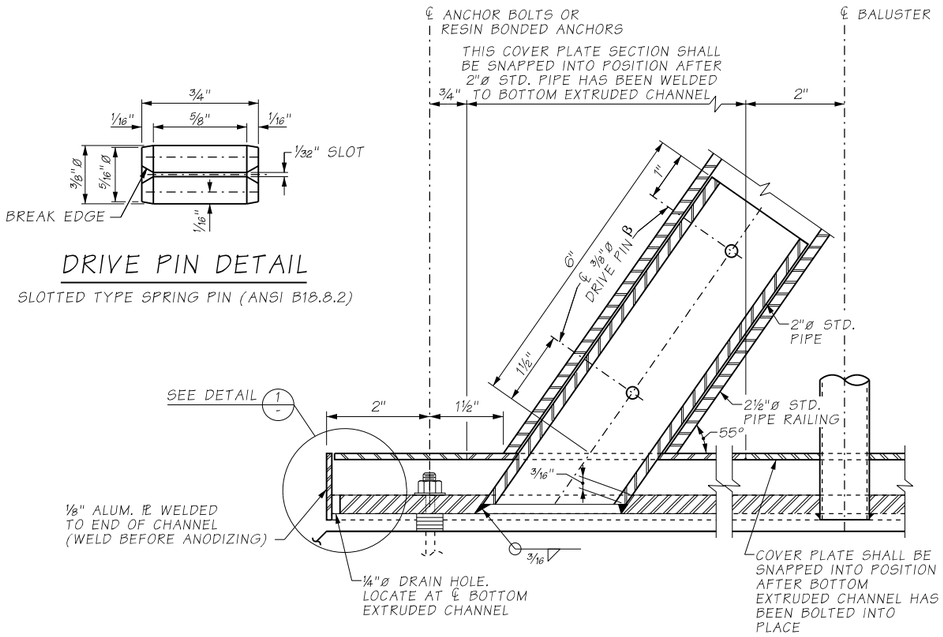
BRIDGE RAILING TYPE BP-12
DETAILS (1 OF 2)

PLAN REF NO BG27

SHEET 77 OF 95 SHEETS

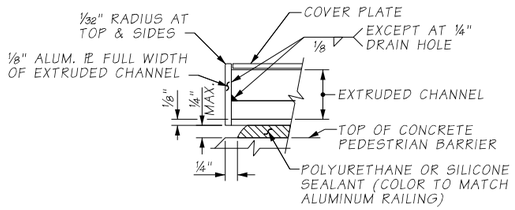
DRIVE PIN DETAIL

SLOTTED TYPE SPRING PIN (ANSI B18.8.2)



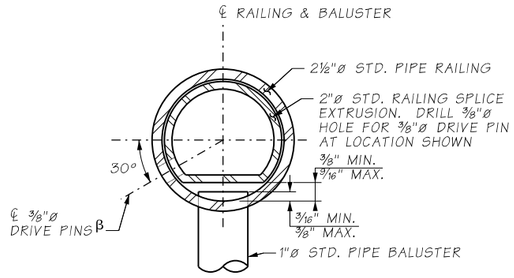
END DETAIL

MATERIAL SPECIFICATION TABLE		
MAT'L	PART	MATERIAL SPECIFICATION
ALUMINUM	RAILS AND BALUSTERS	ASTM B221-6005-T5 OR 6005A-T5 ASTM B241-6061-T6
ALUMINUM	EXTRUDED CHANNELS, COVER PLATES & BAR	ASTM B221-6005-T5 OR 6005A-T5
STEEL	ANCHOR BOLTS, NUTS & WASHERS	STANDARD SPECIFICATION SECTION 9-06.5(4) GR 36 (GALVANIZE IN ACCORDANCE WITH AASHTO SPECIFICATION M 232)
STEEL	STRIP	ASTM A36
STEEL	DRIVE PINS	ASTM A276 OR A240 TYPE 302 STAINLESS STEEL



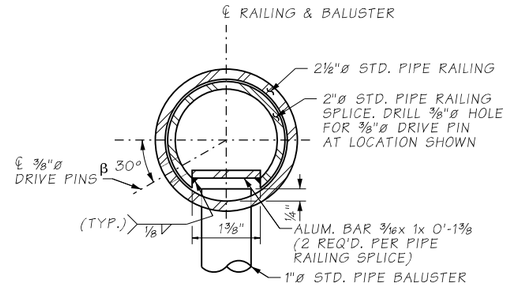
DETAIL 1 -

DRAIN HOLES NOT SHOWN



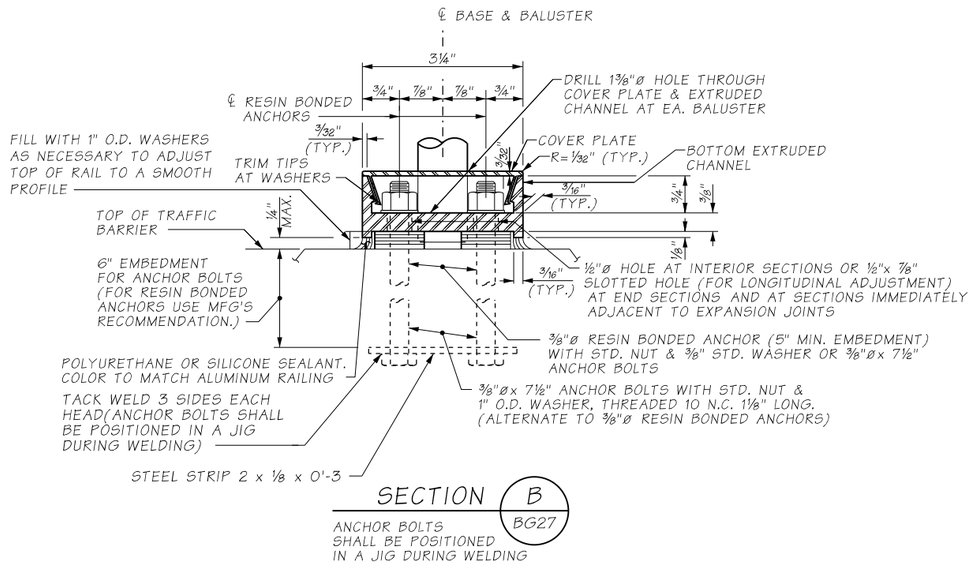
SECTION A — OPTION 1 — BG27

β LOCATE ON OPPOSITE SIDE OF TRAFFIC. DRIVE PINS SHALL BE DRIVEN FLUSH WITH THE OUTSIDE FACE OF THE RAILING.



SECTION A — OPTION 2 — BG27

β LOCATE ON OPPOSITE SIDE OF TRAFFIC. DRIVE PINS SHALL BE DRIVEN FLUSH WITH THE OUTSIDE FACE OF THE RAILING.



SECTION B — BG27

ANCHOR BOLTS SHALL BE POSITIONED IN A JIG DURING WELDING

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TIME	7:28:08 PM		
DATE	1/31/2024		
PLOTTED BY			
DESIGNED BY	K. YOUNG		
ENTERED BY	N. MORALES		
CHECKED BY	X. WU		
PROJ. ENGR.	B. KRAMER		
REGIONAL ADM.	S. ROARK	REVISION	DATE

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER		
23C508		
CONTRACT NO.		LOCATION NO.
		XL6186

KEVIN S. KIM — STATE OF WASHINGTON — 21824 — STRUCTURAL ENGINEER — PROFESSIONAL ENGINEER

SEE SHEET CT1

DATE

P.E. STAMP BOX

DATE

P.E. STAMP BOX

Washington State Department of Transportation

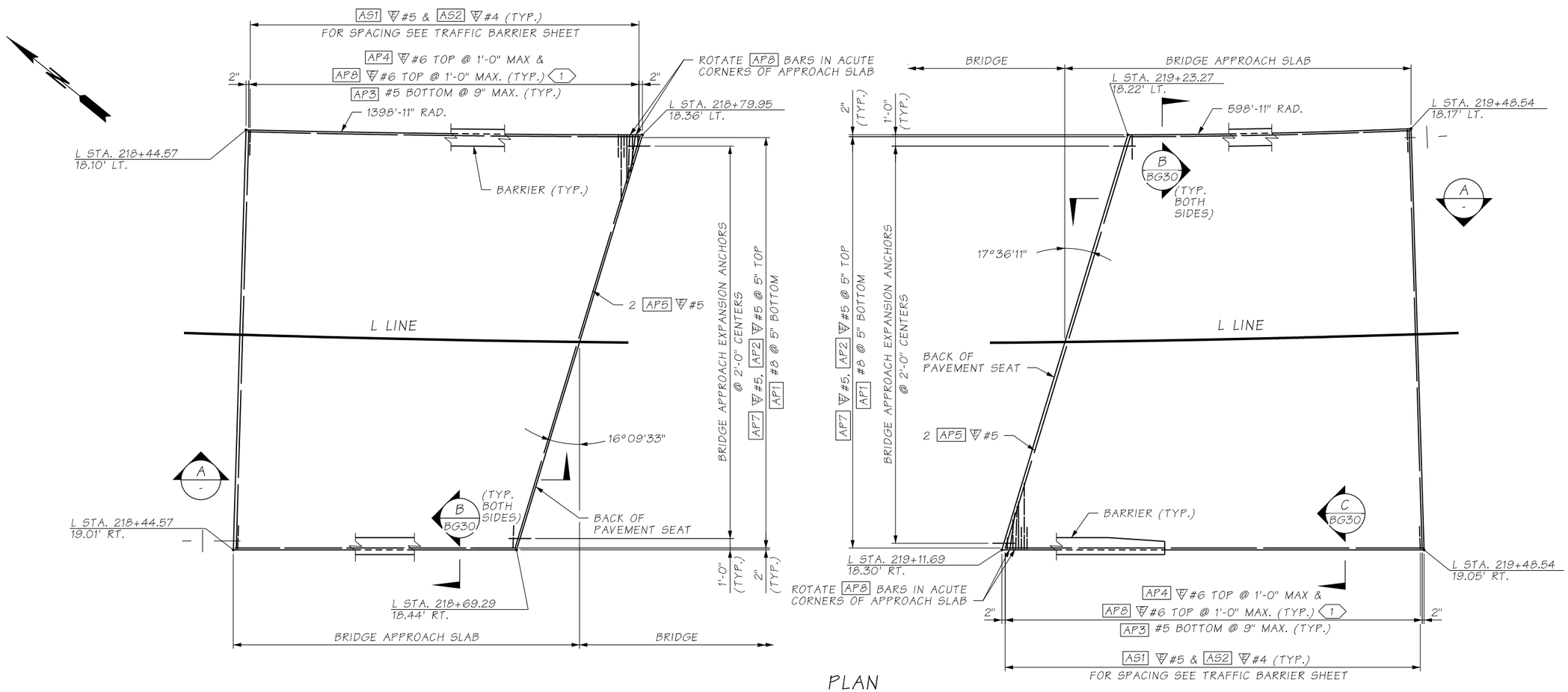
Jacobs

SR 302
VICTOR CREEK
REMOVE FISH BARRIER

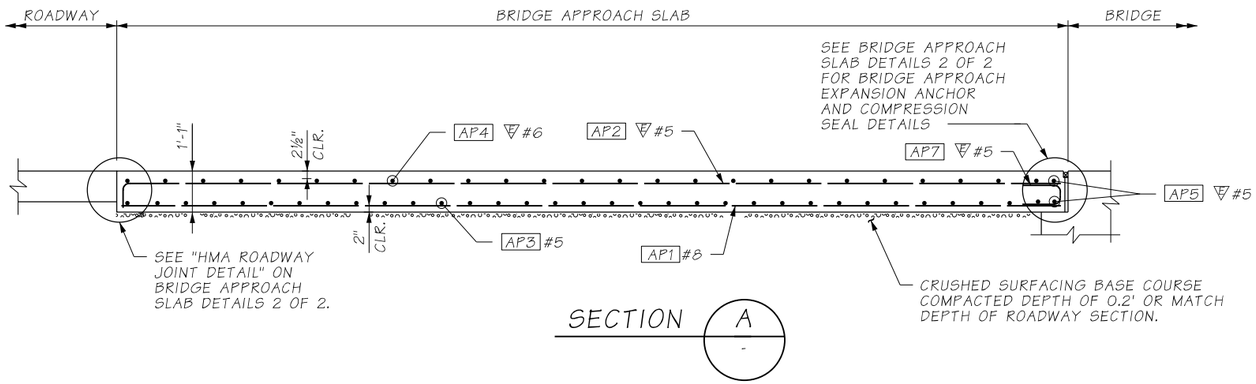
BRIDGE RAILING TYPE BP-12
DETAILS (2 OF 2)

PLAN REF NO
BG28

SHEET 78 OF 95 SHEETS

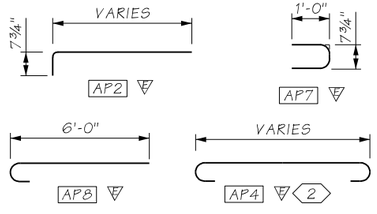


PLAN



SECTION A

BENDING DIAGRAM



= EPOXY COATED REINFORCING STEEL

NOTE: ALL DIMENSIONS ARE OUT TO OUT

GENERAL NOTES:

1. ALL EDGES OF BRIDGE APPROACH SLAB SHALL HAVE ½" RADIUS.
2. THE MINIMUM LAP SPLICE OF #5 IS 2'-0", #5 IS 2'-6", #6 IS 3'-0", AND #8 IS 3'-3". ALL LAP SPLICES SHALL BE STAGGERED SO THAT NO MORE THAN 50% OF REBAR IS SPLICED AT THE SAME LOCATION. LAP SPLICES SHALL BE LOCATED WITHIN THE MIDDLE HALF OF THE BRIDGE APPROACH SLAB. OPTIONAL SPLICES ARE ALLOWED FOR AP4 #6.
3. FOR TRAFFIC BARRIER DETAILS, INCLUDING ANY BRIDGE APPROACH SLAB BLOCKOUT INFORMATION, SEE TRAFFIC BARRIER SHEETS.

NOTE:

1 AP4 HOOKS ARE ONLY REQUIRED AT THE TRAFFIC BARRIER EDGE.

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TIME	7:28:53 PM		
DATE	1/31/2024		
PLOTTED BY			
DESIGNED BY	K. YOUNG		
ENTERED BY	N. MORALES		
CHECKED BY	X. WU		
PROJ. ENGR.	B. KRAMER		
REGIONAL ADM.	S. ROARK	REVISION	DATE

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER		
23C508		
CONTRACT NO.		LOCATION NO.
		XL6186

KEVIN S. KIM — STATE OF WASHINGTON — 21624 — STRUCTURAL ENGINEER — PROFESSIONAL ENGINEER

SEE SHEET CT1 DATE

P.E. STAMP BOX

DATE

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Washington State Department of Transportation

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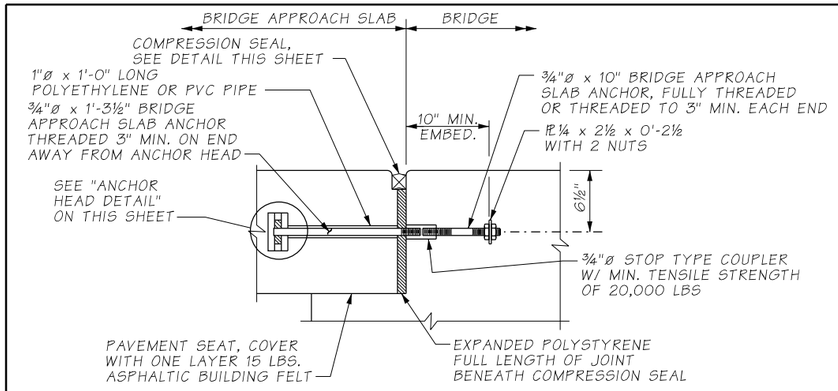
SR 302
VICTOR CREEK
REMOVE FISH BARRIER

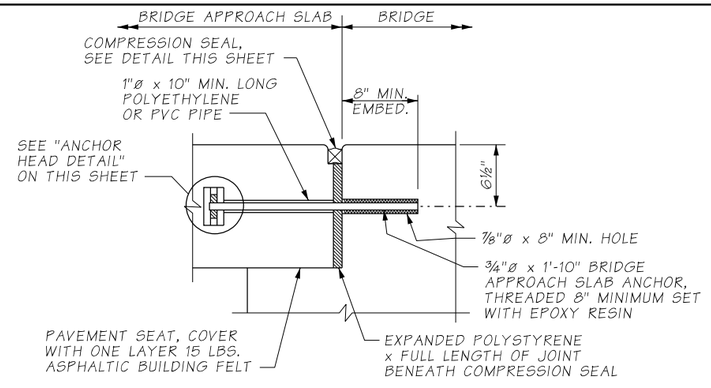
BRIDGE APPROACH SLAB DETAILS (1 OF 2)

PLAN REF NO
BG29

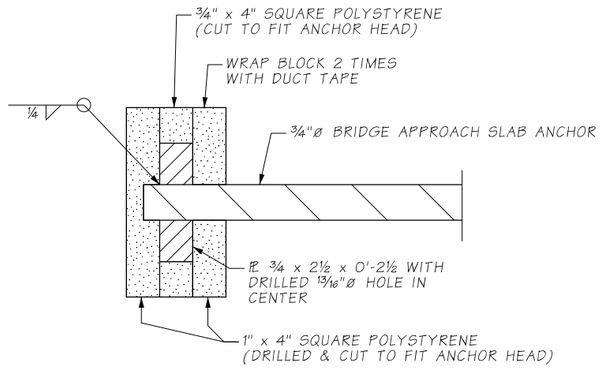
SHEET 79 OF 95 SHEETS



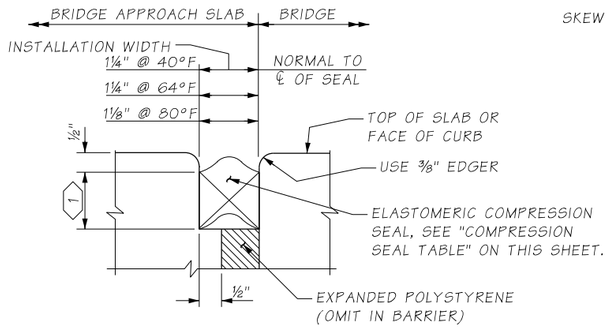
APPROACH EXPANSION ANCHOR - METHOD A



APPROACH EXPANSION ANCHOR - METHOD B

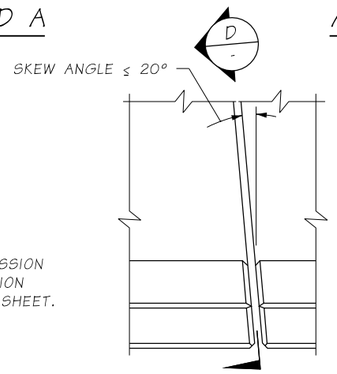


ANCHOR HEAD DETAIL



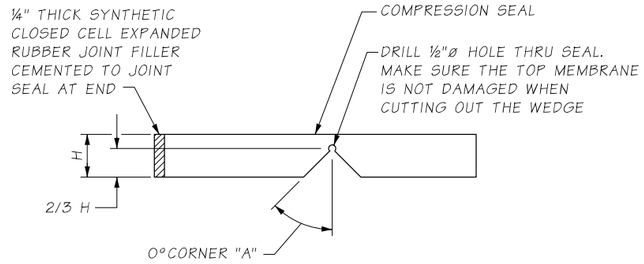
COMPRESSION SEAL DETAIL

EXPANSION JOINT AT BACK OF PAVEMENT SEAT



PLAN

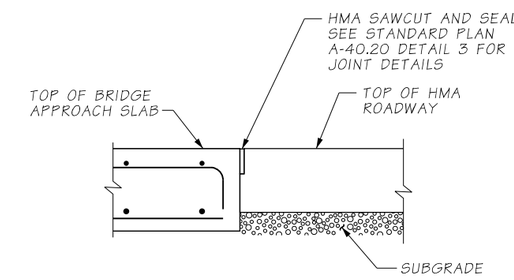
EXPANSION JOINT



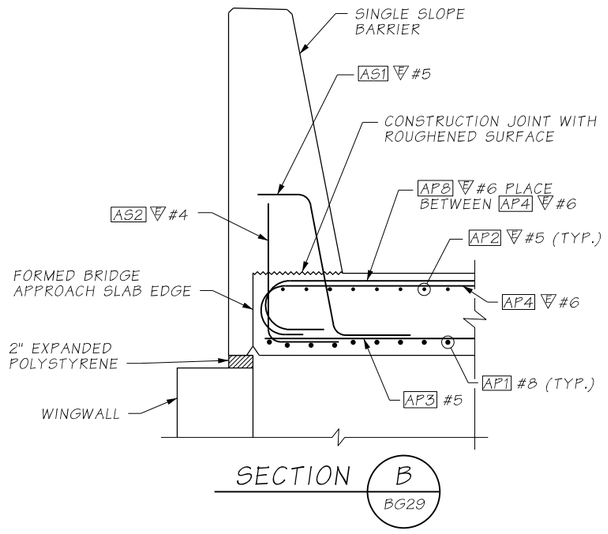
SEAL CUTTING DETAIL

COMPRESSION SEAL TABLE			
D.S. BROWN		WATSON BOWMAN ACME	
SEAL	WIDTH	SEAL	WIDTH
CV-2000	2"	WA-200	2"

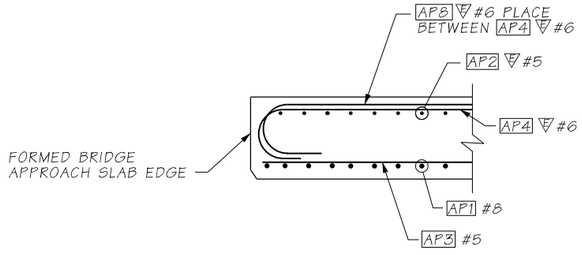
TESTING SHALL BE PER ASTM D 2628 PRIOR TO USE.



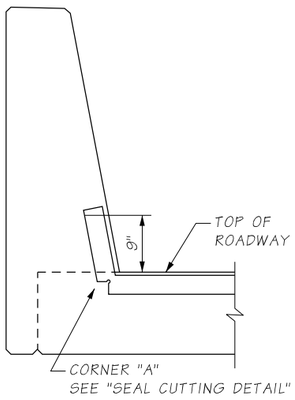
HMA ROADWAY JOINT DETAIL



SECTION B / BG29



SECTION C / BG29



SECTION D / -

GENERAL NOTES:

1. ALL METAL PARTS OF THE APPROACH EXPANSION ANCHOR SHALL RECEIVE ONE COAT OF PAINT CONFORMING TO STANDARD SPECIFICATION SECTION 9-08.1(2)F OR BE GALVANIZED IN ACCORDANCE WITH AASHTO M 232.
2. BRIDGE APPROACH SLAB ANCHORS SHALL BE INSTALLED PARALLEL TO ROADWAY AND TO EACH OTHER.

NOTES:

1. FULLY COMPRESSED SEAL HEIGHT, SEAL HEIGHT VARIES WITH MANUFACTURER, VERIFY PRIOR TO SLAB CONSTRUCTION

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TIME	7:30:20 PM		
DATE	1/31/2024		
PLOTTED BY			
DESIGNED BY	K. YOUNG		
ENTERED BY	N. MORALES		
CHECKED BY	X. WU		
PROJ. ENGR.	B. KRAMER		
REGIONAL ADM.	S. ROARK	REVISION	DATE

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER		
23C508		
CONTRACT NO.		LOCATION NO.
		XL6186

KEVIN S. KIM — STATE OF WASHINGTON — 21824 — STRUCTURAL ENGINEER — PROFESSIONAL ENGINEER

SEE SHEET CT1 DATE

P.E. STAMP BOX

DATE

P.E. STAMP BOX

Washington State Department of Transportation

Jacobs

SR 302
VICTOR CREEK
REMOVE FISH BARRIER

BRIDGE APPROACH SLAB DETAILS (2 OF 2)

PLAN REF NO BG30

SHEET 80 OF 95 SHEETS

S = BAR IS INCLUDED IN SUBSTRUCTURE QUANTITIES

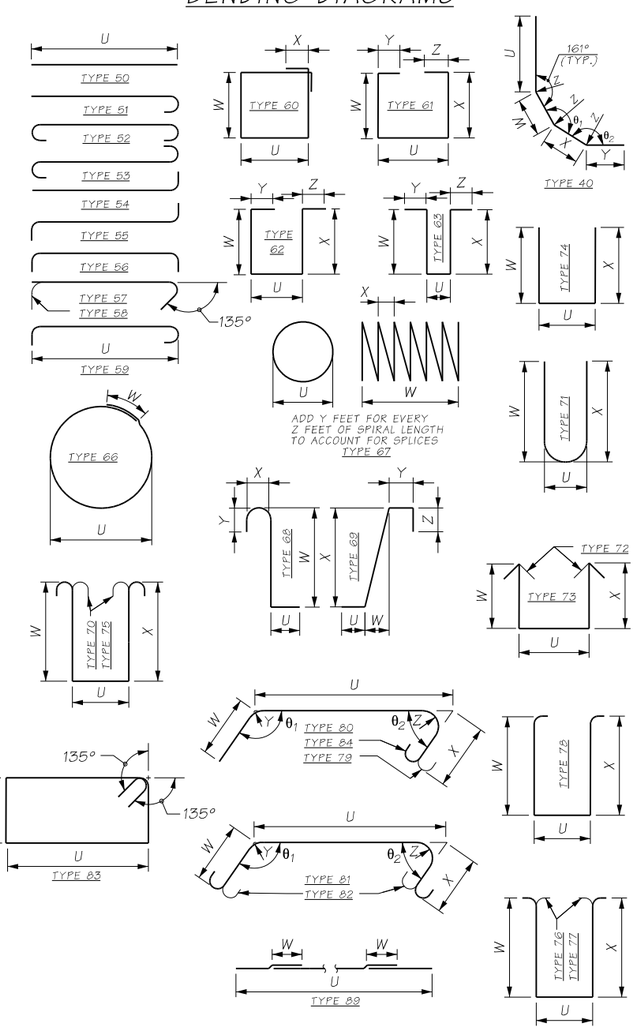
T = TRANSVERSE OR S = SEISMIC

E = BAR IS TO BE EPOXY COATED

V = BAR DIMENSIONS VARY BETWEEN DIMENSIONS SHOWN ON THIS LINE AND THE FOLLOWING LINE

MARK NO.	LOCATION	SIZE	NO. REQ'D	BEND TYPE	T OR S	SUBSTR.	EPOXY	VARIES	NO. EACH	DIMENSIONS (OUT TO OUT) U FT	U IN	W FT	W IN	X FT	X IN	Y FT	Y IN	Z FT	Z IN	ANGLE θ_1 DEG.	ANGLE θ_2 DEG.	LENGTH FT	LENGTH IN	WEIGHT LBS
	PIER 1																							
101	CAP BOTTOM LONGITUDINAL	6	8	50		S				40	2.0											40	2.0	483
102	CAP TOP LONGITUDINAL	6	8	50		S				40	2.0											40	2.0	483
103	CAP SIDE LONGITUDINAL	6	8	50		S				40	2.0											40	2.0	483
104	CAP STIRRUP	6	55	72	T	S		V	1	5	8.0	4	7.0	4	7.0							15	10.0	1422
										5	8.0	6	0.0	6	0.0							18	8.0	
105	CAP VERTICAL TILE	6	110	58	T	S				4	7.0											6	1.0	1002
106	CAP HORIZONTAL TIE	6	110	58	T	S				5	8.0											7	2.0	1181
111	BEARING PEDESTAL STIRRUP	5	52	74	T	S				1	8.0	3	7.0	3	7.0							8	7.0	467
112	BEARING PEDESTAL LONGITUINDAL	5	3	50		S				38	1.0											38	1.0	119
121	WINGWALL BOTTOM LONGITUINDAL	6	12	50		S		V	1	29	8.0											29	8.0	548
										31	2.0											31	2.0	
122	WINGWALL TOP LONGITUINDAL	6	12	50		S		V	1	29	8.0											29	8.0	548
										31	2.0											31	2.0	
123	WINGWALL SIDE LONGITUINDAL	6	16	50		S		V	1	29	8.0											29	8.0	731
										31	2.0											31	2.0	
124	WINGWALL STIRRUP	6	66	72	T	S				4	8.0	4	7.0	4	7.0							14	10.0	1467
125	WINGWALL HORIZONTAL TIE	6	132	58	T	S				4	8.0											6	2.0	1219
131	GIRDER STOP LONGITUINDAL	4	16	50		S				5	11.0											5	11.0	64
132A	NE GIRDER STOP VERTICAL FF	4	7	50	T	S				7	5.0											7	5.0	35
132B	NW GIRDER STOP VERTICAL FF	4	7	50	T	S				8	10.0											8	10.0	41
133A	NE GIRDER STOP VERTICAL NF	4	7	50	T	S				7	5.0											7	5.0	35
133B	NW GIRDER STOP VERTICAL NF	4	7	50	T	S				8	10.0											8	10.0	41
134	TOP TIE GIRDER STOP	4	14	56	T	S				1	8.0											2	3.0	21
141	CURTAIN WALL LONGITUINDAL	4	12	50		S				23	5.0											23	5.0	138
142	CURTAIN WALL VERTICAL FF	4	50	50	T	S				6	9.0											6	9.0	225
143	CURTAIN WALL VERTICAL NF	4	50	50	T	S				6	9.0											6	9.0	225
144	TOP TIE CURTAIN WALL	4	50	56	T	S				1	8.0											2	3.0	75
	PIER 2																							
201	CAP BOTTOM LONGITUDINAL	6	8	50		S				40	2.0											40	2.0	483
202	CAP TOP LONGITUDINAL	6	8	50		S				40	2.0											40	2.0	483
203	CAP SIDE LONGITUDINAL	6	8	50		S				40	2.0											40	2.0	483
204	CAP STIRRUP	6	55	89	T	S		V	1	5	8.0	4	7.0	4	7.0							15	10.0	1428
										5	8.0	6	1.0	6	1.0							18	9.0	
205	CAP VERTICAL TIE	6	110	89	T	S				4	7.0											6	1.0	1002
206	CAP HORIZONTAL TIE	6	110	89	T	S				5	8.0											7	2.0	1181
211	BEARING PEDESTAL STIRRUP	5	52	50	T	S				1	8.0	3	7.0	3	7.0							8	7.0	467
212	BEARING PEDESTAL LONGITUDINAL	5	3	50		S				38	1.0											38	1.0	119
221	WINGWALL BOTTOM LONGITUDINAL	6	12	50		S		V	1	29	8.0											29	8.0	548
										31	2.0											31	2.0	
222	WINGWALL TOP LONGITUDINAL	6	12	89		S		V	1	29	8.0											29	8.0	548
										31	2.0											31	2.0	
223	WINGWALL SIDE LONGITUDINAL	6	16	54		S		V	2	29	8.0											29	8.0	731
206										31	2.0											31	2.0	
224	WINGWALL STIRRUP	6	66	72	T	S				4	8.0	4	7.0	4	7.0							14	10.0	1467
225	WINGWALL HORIZONTAL TIE	6	132	58	T	S				4	8.0											6	2.0	1219
231	GIRDER STOP LONGITUDINAL	4	16	50		S				5	11.0											5	11.0	64
232A	SE GIRDER STOP VERTICAL FF	4	7	50	T	S				7	5.0											7	5.0	35
232B	SW GIRDER STOP VERTICAL FF	4	7	50	T	S				8	10.0											8	10.0	41
233A	SE GIRDER STOP VERTICAL NF	4	7	50	T	S				7	5.0											7	5.0	35
233B	SW GIRDER STOP VERTICAL NF	4	7	50	T	S				8	10.0											8	10.0	41
234	TOP TIE GIRDERSTOP	4	14	56	T	S	E			1	8.0											2	3.0	21
241	CURTAIN WALL LONGITUDINAL	4	12	50		S	E			23	5.0											23	5.0	138
242	CURTAIN WALL VERTICAL FF	4	50	50	T	S	E			6	9.0											6	9.0	225
243	CURTAIN WALL VERTICAL NF	4	50	50	T	S	E			6	9.0											6	9.0	225
244	TOP TIE CURTAIN WALL	6	50	56	T	S	E			1	8.0											2	3.0	75
	END DIAPHRAGM																							
301	TYPICAL LONGITUDINAL	4	16	50						38	0.0											38	0.0	406
302	INNER CAP VERTICAL TIE	4	78	58	T					2	11.0											3	6.0	184
303	BOTTOM STIRRUP	4	78	72	T					1	8.0	1	10.0	0	0.0							3	8.0	193
304	BOTTOM TIE	4	78	58	T					1	8.0											2	3.0	119
305	LONGITUDINAL BOTTOM	6	4	50			E			38	0.0											38	0.0	228
306	LONGITUDINAL TOP	6	4	50						38	0.0											38	0.0	228
307	OUTER STIRRUP	4	78	58	T					2	11.0											3	6.0	184
	DECK																							
401	LONGITUDINAL	5	38	50			E			42	6.0											42	6.0	1685
402	TRANSVERSE	5	81	50	T		E			38	0.0											38	0.0	3210
403	LONGITUDINAL FOR GIRDER	4	18	89			E			42	6.0											42	6.0	511

BENDING DIAGRAMS



NOTES:

1. ALL REINFORCING BARS ON THIS SHEET SHALL BE ASTM A 706 UNLESS SHOWN ON OTHERSWISE.
2. REINFORCING FOR TRAFFIC BARRIERS AND SHAFTS NOT SHOWN IN THE BAR LIST, SEE TRAFFIC BARRIERS AND FOUNDATION DETAILS SHEETS.
3. THE INFORMATION IN THIS TABLE IS FOR REFERENCE ONLY. NUMBER AND LENGTH OF BARS TO BE DETERMINED BY THE CONTRACTOR FROM PLANS.

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		REVISION	DATE
TIME	7:31:35 PM		
DATE	1/31/2024		
PLOTTED BY			
DESIGNED BY	K. YOUNG		
ENTERED BY	N. MORALES		
CHECKED BY	X. WU		
PROJ. ENGR.	B. KRAMER		
REGIONAL ADM.	S. ROARK		

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER	23C508	
CONTRACT NO.		LOCATION NO. XL6186

SEE SHEET CT1 DATE P.E. STAMP BOX

DATE P.E. STAMP BOX

Washington State Department of Transportation

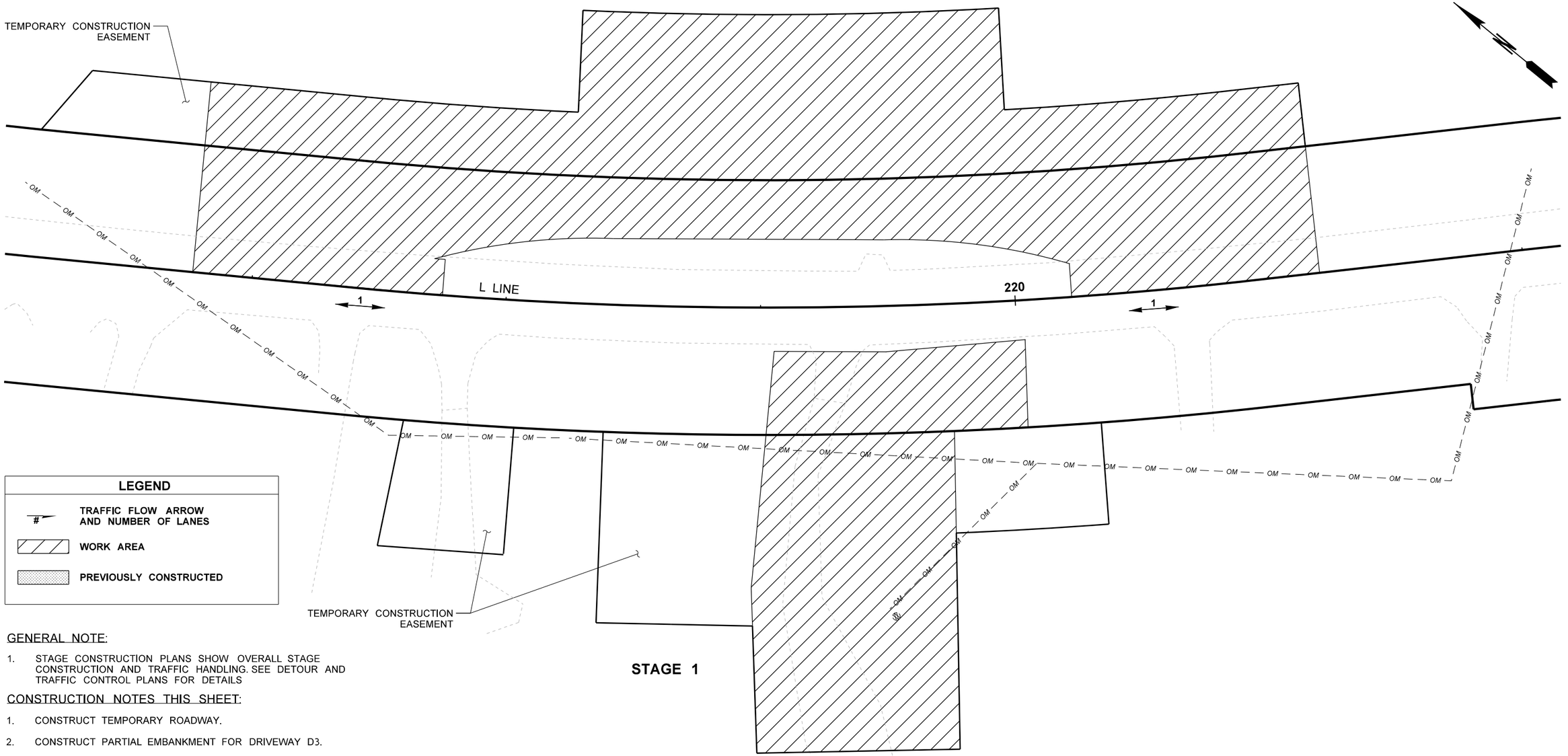
Jacobs

SR 302
VICTOR CREEK
REMOVE FISH BARRIER

BAR LIST

PLAN REF NO BG31

SHEET 81 OF 95 SHEETS



GENERAL NOTE:

1. STAGE CONSTRUCTION PLANS SHOW OVERALL STAGE CONSTRUCTION AND TRAFFIC HANDLING. SEE DETOUR AND TRAFFIC CONTROL PLANS FOR DETAILS

CONSTRUCTION NOTES THIS SHEET:

1. CONSTRUCT TEMPORARY ROADWAY.
2. CONSTRUCT PARTIAL EMBANKMENT FOR DRIVEWAY D3.

TRAFFIC HANDLING NOTES THIS SHEET:

1. STAGE 1 WILL MAINTAIN SINGLE LANE TRAFFIC, BOTH DIRECTIONS USING A TEMPORARY SIGNAL SYSTEM.
2. SEE TC-01 AND TC-02 FOR TRAFFIC SIGN AND SIGNAL PLACEMENTS.

FILE NAME	c:\users\lemkep\pw_wsdot\d0545011\XL6186_PS_SU_001.dgn				REGION NO. / STATE	FED.AID PROJ.NO.	
TIME	7:47:07 PM				10 WASH		
DATE	1/31/2024				JOB NUMBER 23C508		
PLOTTED BY	LEMKEP				CONTRACT NO.	LOCATION NO. XL6186	
DESIGNED BY	P. LEMKE						
ENTERED BY	P. LEMKE						
CHECKED BY	B. DEARING						
PROJ. ENGR.	B. KRAMER						
REGIONAL ADM.	S. ROARK	REVISION	DATE	BY			

P.E. STAMP BOX — DATE

JACOBS

Washington State Department of Transportation

SR 302
VICTOR CREEK
REMOVE FISH BARRIER

STAGE CONSTRUCTION PLAN

PLAN REF NO SU1

SHEET 82 OF 95 SHEETS

pw:\\projectstore.wsdot.wa.gov:WSDOT\Documents_HQ\Fish Passage\ORproj\000\Y12554\Task Order AQ\700PROJTEC\702 Roadway\Sheets\XL6186_PS_SU_001.dgn

TEMPORARY CONSTRUCTION EASEMENT

T LINE

13

10

SR 302 LINE

220

1

1

TEMPORARY CONSTRUCTION EASEMENT

LEGEND

- TRAFFIC FLOW ARROW AND NUMBER OF LANES
- WORK AREA
- PREVIOUSLY CONSTRUCTED
- TEMPORARY PAVEMENT TRANSITION

GENERAL NOTE:

1. STAGE CONSTRUCTION PLANS SHOW OVERALL STAGE CONSTRUCTION AND TRAFFIC HANDLING. SEE DETOUR AND TRAFFIC CONTROL PLANS FOR DETAILS

CONSTRUCTION NOTES THIS SHEET:

1. CONSTRUCT BRIDGE AND APPROACH SLABS.
2. BEGIN STREAM GRADING DOWNSTREAM.
3. CONSTRUCT TEMPORARY PAVEMENT TRANSITIONS NEEDED FOR STAGE 3.

TRAFFIC HANDLING NOTES THIS SHEET:

1. MOVE TRAFFIC TO TEMPORARY ROADWAY.

STAGE 2

0 20 40
SCALE IN FEET

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DATE	1/31/2024				JOB NUMBER		
PLOTTED BY	LEMKEP				23C508		
DESIGNED BY	P. LEMKE				CONTRACT NO.		LOCATION NO.
ENTERED BY	P. LEMKE						XL6186
CHECKED BY	B. DEARING						
PROJ. ENGR.	B. KRAMER						
REGIONAL ADM.	S. ROARK	REVISION	DATE	BY			

P.E. STAMP BOX DATE

JACOBS

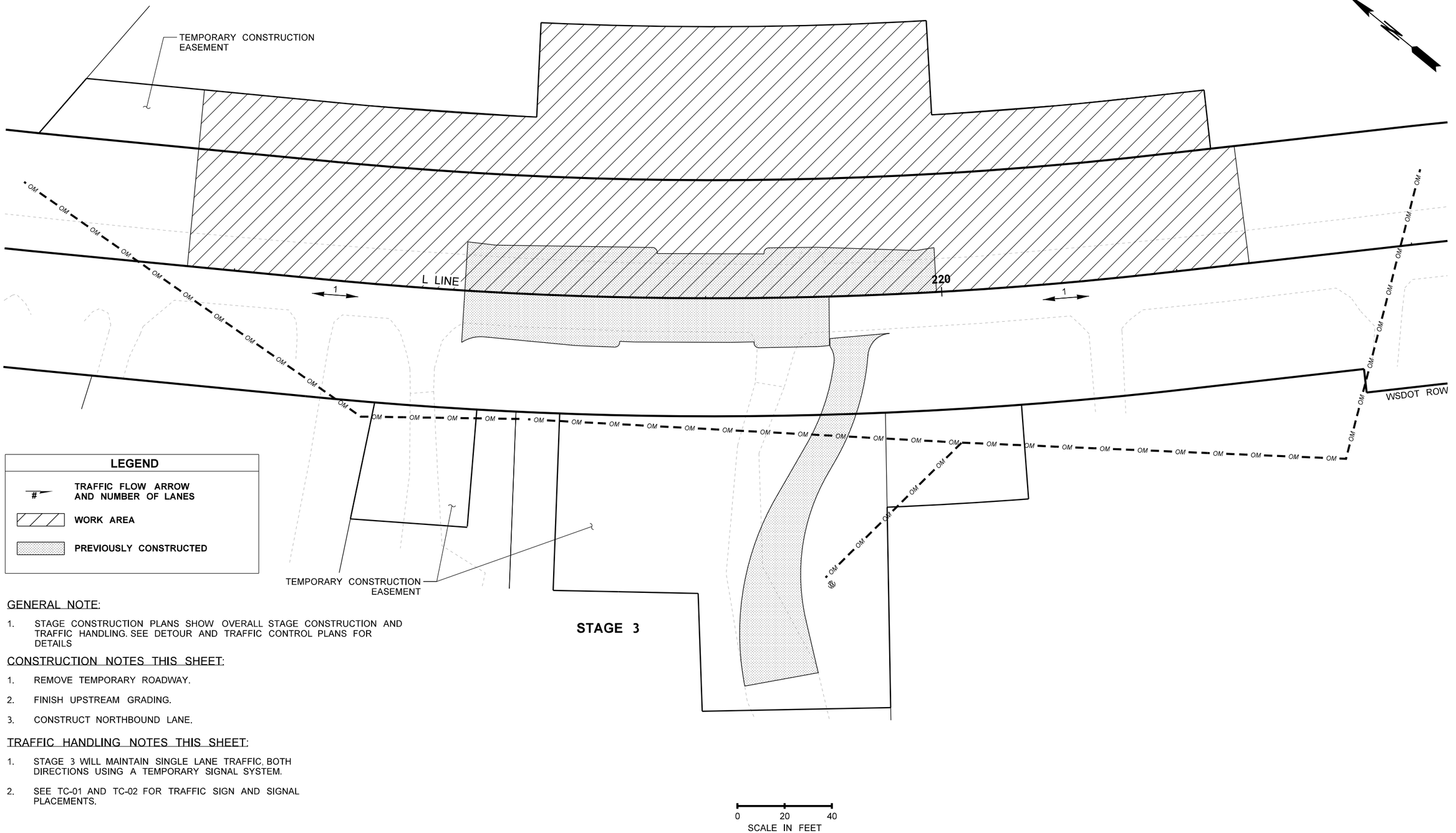
Washington State Department of Transportation

SR 302
VICTOR CREEK
REMOVE FISH BARRIER

STAGE CONSTRUCTION PLAN

PLAN REF NO
SU2

SHEET 83 OF 95 SHEETS



STAGE 3

GENERAL NOTE:

1. STAGE CONSTRUCTION PLANS SHOW OVERALL STAGE CONSTRUCTION AND TRAFFIC HANDLING. SEE DETOUR AND TRAFFIC CONTROL PLANS FOR DETAILS

CONSTRUCTION NOTES THIS SHEET:

1. REMOVE TEMPORARY ROADWAY.
2. FINISH UPSTREAM GRADING.
3. CONSTRUCT NORTHBOUND LANE.

TRAFFIC HANDLING NOTES THIS SHEET:

1. STAGE 3 WILL MAINTAIN SINGLE LANE TRAFFIC, BOTH DIRECTIONS USING A TEMPORARY SIGNAL SYSTEM.
2. SEE TC-01 AND TC-02 FOR TRAFFIC SIGN AND SIGNAL PLACEMENTS.

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DATE	2/5/2024				JOB NUMBER		
PLOTTED BY	LEMKEP				23C508		
DESIGNED BY	P. LEMKE				CONTRACT NO.		LOCATION NO.
ENTERED BY	P. LEMKE						XL6186
CHECKED BY	B. DEARING						
PROJ. ENGR.	B. KRAMER						
REGIONAL ADM.	S. ROARK	REVISION	DATE	BY			

P.E. STAMP BOX DATE

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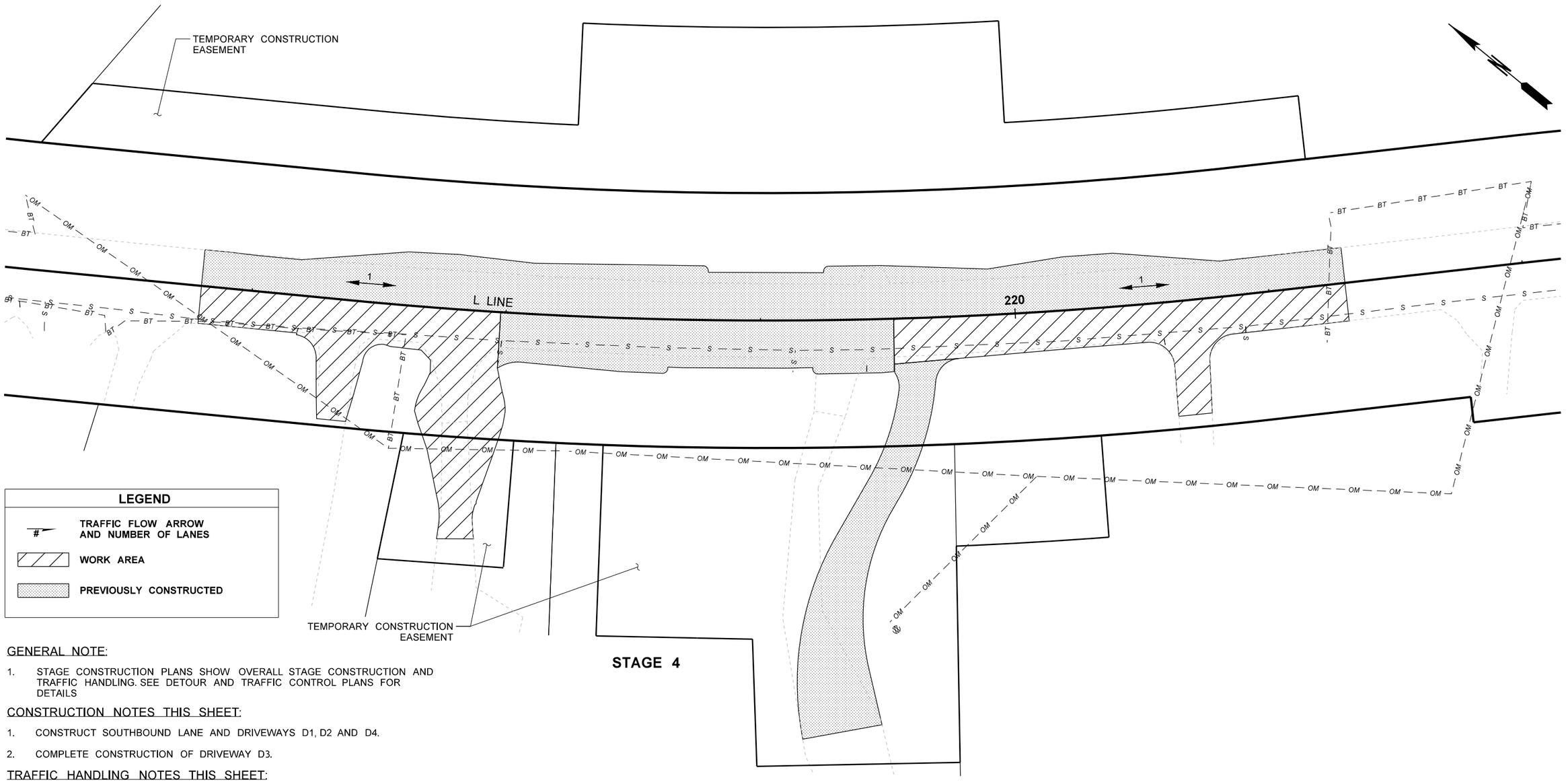
SR 302
VICTOR CREEK
REMOVE FISH BARRIER

STAGE CONSTRUCTION PLAN

PLAN REF NO SU3

SHEET 84 OF 95 SHEETS

pw:\\projectstore.wsdot.wa.gov:WSDOT\Documents_HQ\Fish Passage\ORproj\000\Y12554\Task Order AQ\700PROJTEC\702 Roadway\Sheets\XL6186_PS_SU_003.dgn



STAGE 4

GENERAL NOTE:

1. STAGE CONSTRUCTION PLANS SHOW OVERALL STAGE CONSTRUCTION AND TRAFFIC HANDLING. SEE DETOUR AND TRAFFIC CONTROL PLANS FOR DETAILS

CONSTRUCTION NOTES THIS SHEET:

1. CONSTRUCT SOUTHBOUND LANE AND DRIVEWAYS D1, D2 AND D4.
2. COMPLETE CONSTRUCTION OF DRIVEWAY D3.

TRAFFIC HANDLING NOTES THIS SHEET:

1. MOVE TRAFFIC TO NORTHBOUND LANE.

pw:\\projectstore.wsdot.wa.gov:WSDOT\Documents_HQ\Fish Passage\ORpro\000\Y12554\Task Order AQ\700PROJTEC\702 Roadway\Sheets\XL6186_PS_SU_004.dgn

FILE NAME	c:\users\lemkep\pw_wsdot\d0545011\XL6186_PS_SU_004.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
TIME	7:53:44 PM				10	WASH	
DATE	1/31/2024				JOB NUMBER		
PLOTTED BY	LEMKEP				23C508		
DESIGNED BY	P. LEMKE				CONTRACT NO.		LOCATION NO.
ENTERED BY	P. LEMKE						XL6186
CHECKED BY	B. DEARING						
PROJ. ENGR.	B. KRAMER						
REGIONAL ADM.	S. ROARK	REVISION	DATE	BY			

P.E. STAMP BOX DATE

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SR 302
VICTOR CREEK
REMOVE FISH BARRIER

STAGE CONSTRUCTION PLAN

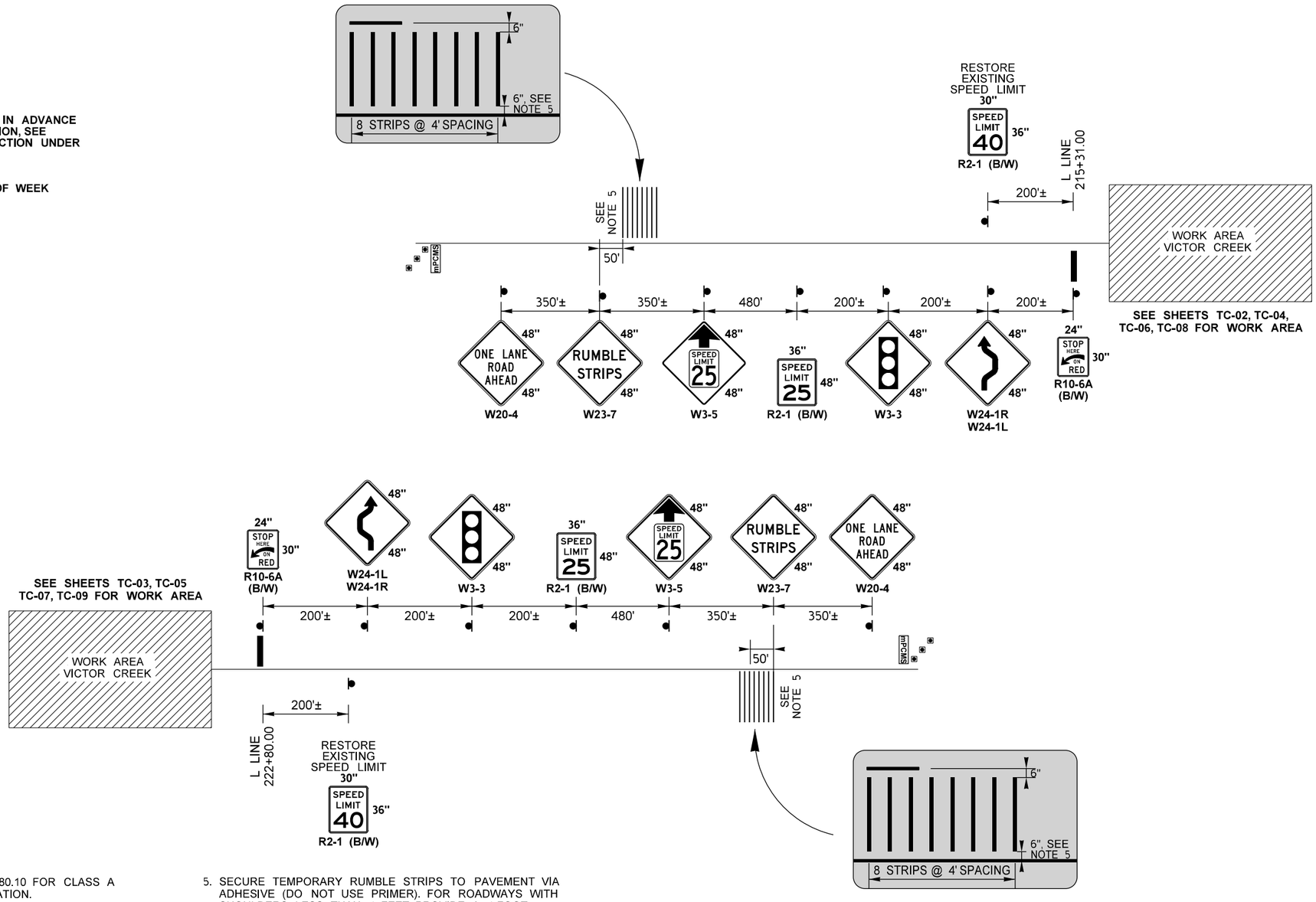
PLAN REF NO SU4

SHEET 85 OF 95 SHEETS

mPCMS	
1	2
WORKZONE REDUCES TO 25 MPH	STARTING MO/DA MONDAY
2.0 SEC	2.0 SEC

DISPLAY AT LEAST 72-HOURS IN ADVANCE OF THE SPEED LIMIT REDUCTION, SEE SPECIAL PROVISION CONSTRUCTION UNDER TRAFIC.

MO/DA = CALANDE DATE
MONDAY - CHANGE TO DAY OF WEEK



1. SEE STANDARD PLAN K-80.10 FOR CLASS A CONSTRUCTION INSTALLATION.
2. ALL SIGNS SHALL BE BLACK ON ORANGE UNLESS OTHERWISE SHOWN.
3. ALL CONFLICTING SIGNS SHALL BE COVERED PER STANDARD SPECIFICATION 1-10.3(3)A.
4. WSDOT PROJECT ENGINEERING OFFICE WILL PROVIDE PHONE NUMBER.
5. SECURE TEMPORARY RUMBLE STRIPS TO PAVEMENT VIA ADHESIVE (DO NOT USE PRIMER). FOR ROADWAYS WITH SHOULDERS LESS THAN 4 FEET, PROVIDE A 4-FOOT CLEAR PATH FOR BICYCLES MEASURED FROM EDGE OF PAVED SHOULDER. AVOID PLACING THEM WITHIN HORIZONTAL CURVES, ADJUST SIGN SPACING IF NEEDED.
6. TO CONTROL WITH FLAGGING, PLACE FLAGGERS AT OR BEFORE STOP LINE LOCATIONS AND TURN TEMPORARY TRAFFIC SIGNAL OFF, REPLACE SIGN W3-3 ON SHEET TC-01 WITH SIGN W20-7A DURING FLAGGING OPERATION, SEE TC-10 FOR ADDITIONAL FLAGGING STATION DETAILS.

FILE NAME	c:\users\lemkep\pw_wsdot\d0545011\XL6186_PS_TC_001.dgn				REGION NO. / STATE	FED.AID PROJ.NO.
TIME	7:58:59 PM				10 WASH	
DATE	1/31/2024				JOB NUMBER 23C508	
PLOTTED BY	LEMKEP				CONTRACT NO.	LOCATION NO. XL6186
DESIGNED BY	P. LEMKE					
ENTERED BY	P. LEMKE					
CHECKED BY	B. DEARING					
PROJ. ENGR.	B. KRAMER					
REGIONAL ADM.	S. ROARK	REVISION	DATE	BY		

P.E. STAMP BOX — DATE

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SR 302
VICTOR CREEK
REMOVE FISH BARRIER

CLASS A SIGN PLAN

PLAN REF NO TC1

SHEET 86 OF 95 SHEETS

LEGEND

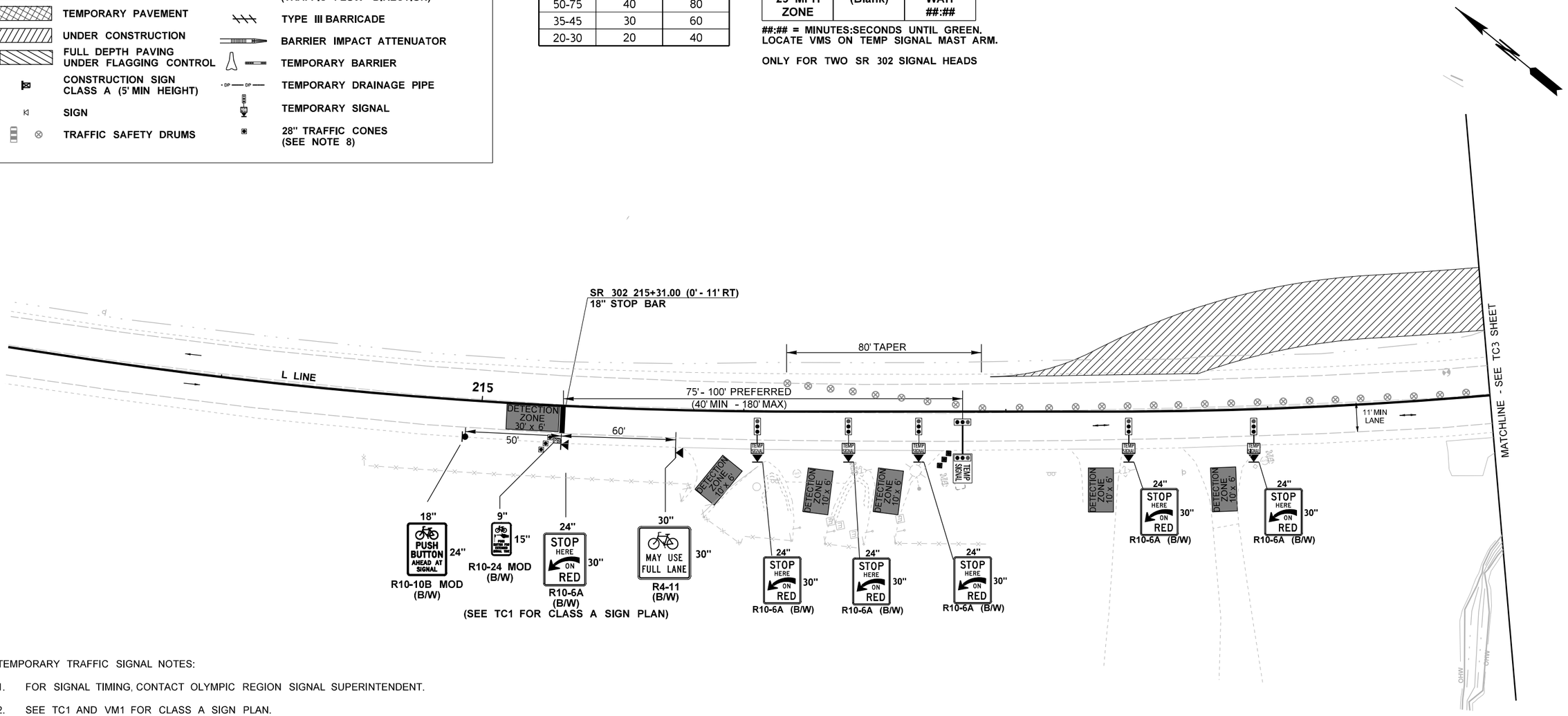
- PREVIOUSLY CONSTRUCTED
- TEMPORARY PAVEMENT
- UNDER CONSTRUCTION
- FULL DEPTH PAVING UNDER FLAGGING CONTROL
- CONSTRUCTION SIGN CLASS A (5' MIN HEIGHT)
- SIGN
- TRAFFIC SAFETY DRUMS
- LANE USAGE (TRAFFIC FLOW DIRECTION)
- TYPE III BARRICADE
- BARRIER IMPACT ATTENUATOR
- TEMPORARY BARRIER
- TEMPORARY DRAINAGE PIPE
- TEMPORARY SIGNAL
- 28" TRAFFIC CONES (SEE NOTE 8)

MAXIMUM CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50-75	40	80
35-45	30	60
20-30	20	40

WAIT-TIME DISPLAY VMS		
GREEN	YELLOW	RED
25 MPH ZONE	(Blank)	WAIT ##:##

##:## = MINUTES:SECONDS UNTIL GREEN.
LOCATE VMS ON TEMP SIGNAL MAST ARM.

ONLY FOR TWO SR 302 SIGNAL HEADS



TEMPORARY TRAFFIC SIGNAL NOTES:

1. FOR SIGNAL TIMING, CONTACT OLYMPIC REGION SIGNAL SUPERINTENDENT.
2. SEE TC1 AND VM1 FOR CLASS A SIGN PLAN.
3. TO CONTROL WITH FLAGGING, PLACE FLAGGERS AT OR BEFORE STOP LINE LOCATIONS AND TURN TEMPORARY TRAFFIC SIGNAL OFF, REPLACE SIGN W3-3 ON SHEET TC1 WITH SIGN W20-7A DURING FLAGGING OPERATION, SEE TC10 FOR ADDITIONAL FLAGGING STATION DETAILS.
4. ALL PAVEMENT MARKINGS SHALL BE PREFORMED REMOVABLE TAPE.
5. CONTRACTOR SHALL COORDINATE WITH RESIDENCE AND MAINTAIN DRIVEWAYS WHERE SHOWN ON PLANS.
6. FOR TEMPORARY LIGHTING SEE SHEET ILT1

0 20 40
SCALE IN FEET

FILE NAME	c:\users\lemkep\pw_wsdot\d0545011\XL6186_PS_TC_002.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
TIME	8:00:00 PM				10	WASH	
DATE	1/31/2024				JOB NUMBER		
PLOTTED BY	LEMKEP				23C508		
DESIGNED BY	P. LEMKE				CONTRACT NO.		LOCATION NO.
ENTERED BY	P. LEMKE						XL6186
CHECKED BY	B. DEARING						
PROJ. ENGR.	B. KRAMER						
REGIONAL ADM.	S. ROARK	REVISION	DATE	BY			

P.E. STAMP BOX DATE

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SR 302
VICTOR CREEK
REMOVE FISH BARRIER

TRAFFIC CONTROL PLAN - STAGE 1

PLAN REF NO TC2

SHEET 87 OF 95 SHEETS

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MAXIMUM CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50-75	40	80
35-45	30	60
20-30	20	40

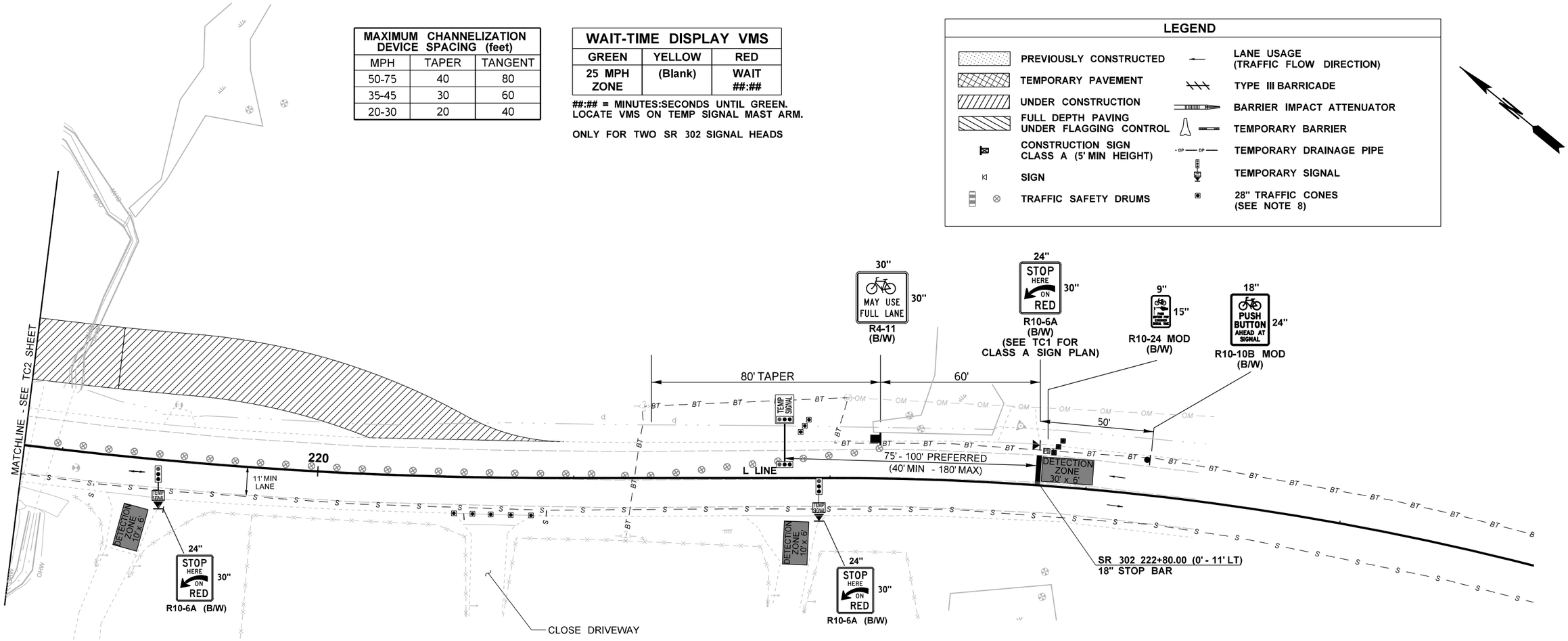
WAIT-TIME DISPLAY VMS		
GREEN	YELLOW	RED
25 MPH ZONE	(Blank)	WAIT ##:##

##:## = MINUTES:SECONDS UNTIL GREEN.
LOCATE VMS ON TEMP SIGNAL MAST ARM.

ONLY FOR TWO SR 302 SIGNAL HEADS

LEGEND

- PREVIOUSLY CONSTRUCTED
- TEMPORARY PAVEMENT
- UNDER CONSTRUCTION
- FULL DEPTH PAVING UNDER FLAGGING CONTROL
- CONSTRUCTION SIGN CLASS A (5' MIN HEIGHT)
- SIGN
- TRAFFIC SAFETY DRUMS
- LANE USAGE (TRAFFIC FLOW DIRECTION)
- TYPE III BARRICADE
- BARRIER IMPACT ATTENUATOR
- TEMPORARY BARRIER
- TEMPORARY DRAINAGE PIPE
- TEMPORARY SIGNAL
- 28" TRAFFIC CONES (SEE NOTE 8)



TEMPORARY TRAFFIC SIGNAL NOTES:

1. FOR SIGNAL TIMING, CONTACT OLYMPIC REGION SIGNAL SUPERINTENDENT.
2. SEE TC1 AND VM1 FOR CLASS A SIGN PLAN.
3. TO CONTROL WITH FLAGGING, PLACE FLAGGERS AT OR BEFORE STOP LINE LOCATIONS AND TURN TEMPORARY TRAFFIC SIGNAL OFF, REPLACE SIGN W3-3 ON SHEET TC1 WITH SIGN W20-7A DURING FLAGGING OPERATION, SEE TC10 FOR ADDITIONAL FLAGGING STATION DETAILS.
4. ALL PAVEMENT MARKINGS SHALL BE PREFORMED REMOVABLE TAPE.
5. CONTRACTOR SHALL COORDINATE WITH RESIDENCE AND MAINTAIN DRIVEWAYS WHERE SHOWN ON PLANS.
6. FOR TEMPORARY LIGHTING SEE SHEET ILT1

0 20 40
SCALE IN FEET

FILE NAME	c:\users\lemkep\pw_wsdot\d0545011\XL6186_PS_TC_003.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
TIME	8:01:02 PM				10	WASH	
DATE	1/31/2024				JOB NUMBER		
PLOTTED BY	LEMKEP				23C508		
DESIGNED BY	P. LEMKE				CONTRACT NO.		LOCATION NO.
ENTERED BY	P. LEMKE						XL6186
CHECKED BY	B. DEARING						
PROJ. ENGR.	B. KRAMER						
REGIONAL ADM.	S. ROARK	REVISION	DATE	BY			

P.E. STAMP BOX DATE

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Washington State Department of Transportation

SR 302
VICTOR CREEK
REMOVE FISH BARRIER

TRAFFIC CONTROL PLAN - STAGE 1

PLAN REF NO TC3

SHEET 88 OF 95 SHEETS

LEGEND

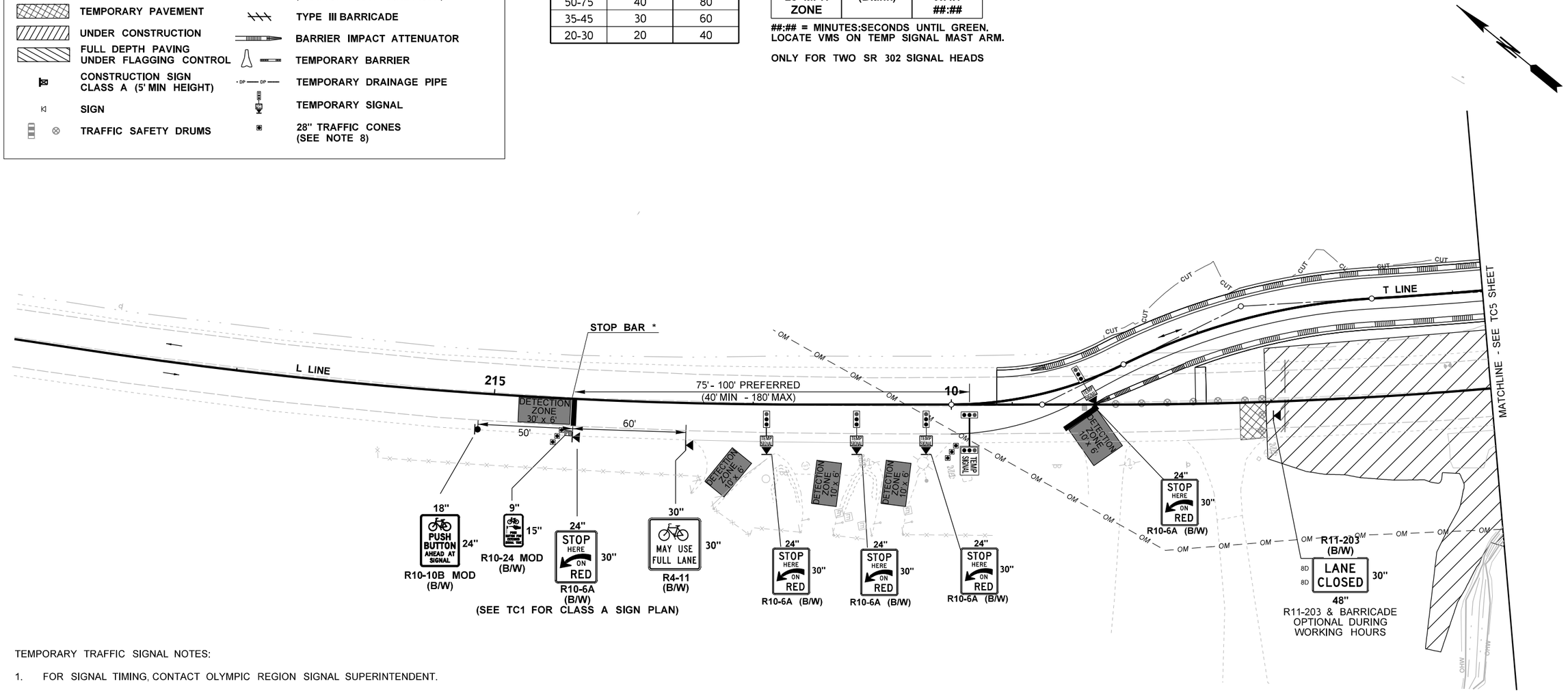
PREVIOUSLY CONSTRUCTED	LANE USAGE (TRAFFIC FLOW DIRECTION)
TEMPORARY PAVEMENT	TYPE III BARRICADE
UNDER CONSTRUCTION	BARRIER IMPACT ATTENUATOR
FULL DEPTH PAVING UNDER FLAGGING CONTROL	TEMPORARY BARRIER
CONSTRUCTION SIGN CLASS A (5' MIN HEIGHT)	TEMPORARY DRAINAGE PIPE
SIGN	TEMPORARY SIGNAL
TRAFFIC SAFETY DRUMS	28" TRAFFIC CONES (SEE NOTE 8)

MAXIMUM DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50-75	40	80
35-45	30	60
20-30	20	40

WAIT-TIME DISPLAY VMS		
GREEN	YELLOW	RED
25 MPH ZONE	(Blank)	WAIT ##:##

##:## = MINUTES:SECONDS UNTIL GREEN.
LOCATE VMS ON TEMP SIGNAL MAST ARM.

ONLY FOR TWO SR 302 SIGNAL HEADS



(SEE TC1 FOR CLASS A SIGN PLAN)

TEMPORARY TRAFFIC SIGNAL NOTES:

1. FOR SIGNAL TIMING, CONTACT OLYMPIC REGION SIGNAL SUPERINTENDENT.
2. SEE TC1 AND VM1 FOR CLASS A SIGN PLAN.
3. TO CONTROL WITH FLAGGING, PLACE FLAGGERS AT OR BEFORE STOP LINE LOCATIONS AND TURN TEMPORARY TRAFFIC SIGNAL OFF, REPLACE SIGN W3-3 ON SHEET TC1 WITH SIGN W20-7A DURING FLAGGING OPERATION, SEE TC10 FOR ADDITIONAL FLAGGING STATION DETAILS.
4. ALL PAVEMENT MARKINGS SHALL BE PREFORMED REMOVABLE TAPE.
5. CONTRACTOR SHALL COORDINATE WITH RESIDENCE AND MAINTAIN DRIVEWAYS WHERE SHOWN ON PLANS.
6. FOR TEMPORARY LIGHTING SEE SHEET ILT1

* ITEM INSTALLED IN STAGE 1

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PLOTTED BY	LEMKEP				23C508		
DESIGNED BY	P. LEMKE				CONTRACT NO.		LOCATION NO.
ENTERED BY	P. LEMKE						XL6186
CHECKED BY	B. DEARING						
PROJ. ENGR.	B. KRAMER						
REGIONAL ADM.	S. ROARK	REVISION	DATE	BY			

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SR 302
VICTOR CREEK
REMOVE FISH BARRIER

TRAFFIC CONTROL PLAN - STAGE 2

PLAN REF NO TC4

SHEET 89 OF 95 SHEETS

MAXIMUM CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50-75	40	80
35-45	30	60
20-30	20	40

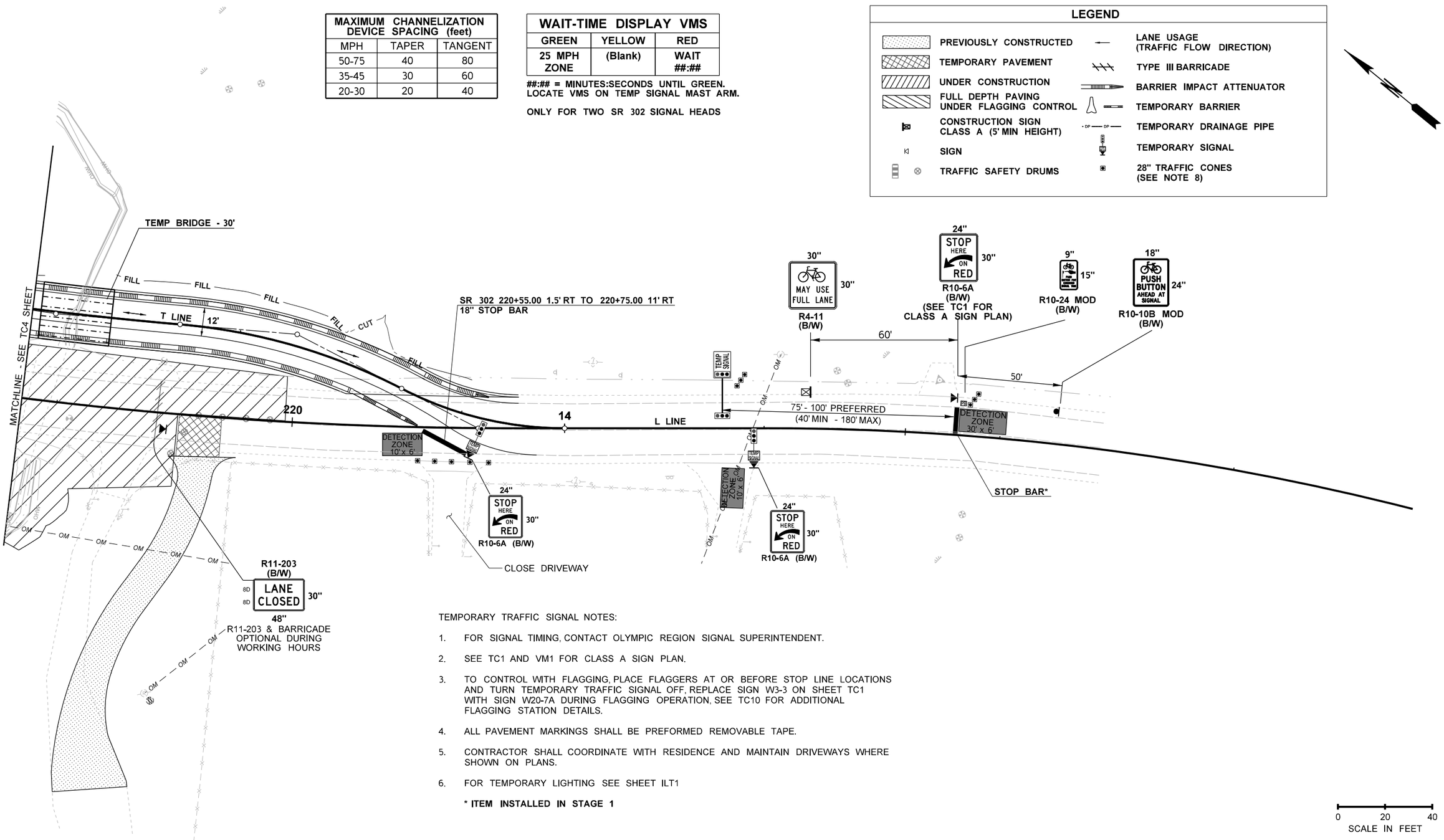
WAIT-TIME DISPLAY VMS		
GREEN	YELLOW	RED
25 MPH ZONE	(Blank)	WAIT ##:##

##:## = MINUTES:SECONDS UNTIL GREEN.
LOCATE VMS ON TEMP SIGNAL MAST ARM.

ONLY FOR TWO SR 302 SIGNAL HEADS

LEGEND

- PREVIOUSLY CONSTRUCTED
- TEMPORARY PAVEMENT
- UNDER CONSTRUCTION
- FULL DEPTH PAVING UNDER FLAGGING CONTROL
- CONSTRUCTION SIGN CLASS A (5' MIN HEIGHT)
- SIGN
- TRAFFIC SAFETY DRUMS
- LANE USAGE (TRAFFIC FLOW DIRECTION)
- TYPE III BARRICADE
- BARRIER IMPACT ATTENUATOR
- TEMPORARY BARRIER
- TEMPORARY DRAINAGE PIPE
- TEMPORARY SIGNAL
- 28" TRAFFIC CONES (SEE NOTE 8)



TEMPORARY TRAFFIC SIGNAL NOTES:

1. FOR SIGNAL TIMING, CONTACT OLYMPIC REGION SIGNAL SUPERINTENDENT.
2. SEE TC1 AND VM1 FOR CLASS A SIGN PLAN.
3. TO CONTROL WITH FLAGGING, PLACE FLAGGERS AT OR BEFORE STOP LINE LOCATIONS AND TURN TEMPORARY TRAFFIC SIGNAL OFF, REPLACE SIGN W3-3 ON SHEET TC1 WITH SIGN W20-7A DURING FLAGGING OPERATION, SEE TC10 FOR ADDITIONAL FLAGGING STATION DETAILS.
4. ALL PAVEMENT MARKINGS SHALL BE PREFORMED REMOVABLE TAPE.
5. CONTRACTOR SHALL COORDINATE WITH RESIDENCE AND MAINTAIN DRIVEWAYS WHERE SHOWN ON PLANS.
6. FOR TEMPORARY LIGHTING SEE SHEET ILT1

*** ITEM INSTALLED IN STAGE 1**

0 20 40
SCALE IN FEET

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TIME	8:02:41 PM						
DATE	1/31/2024						
PLOTTED BY	LEMKEP				JOB NUMBER 23C508		
DESIGNED BY	P. LEMKE						
ENTERED BY	P. LEMKE						
CHECKED BY	B. DEARING				CONTRACT NO.		LOCATION NO. XL6186
PROJ. ENGR.	B. KRAMER						
REGIONAL ADM.	S. ROARK	REVISION	DATE	BY			

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SR 302
VICTOR CREEK
REMOVE FISH BARRIER

TRAFFIC CONTROL PLAN - STAGE 2

PLAN REF NO TC5

SHEET 90 OF 95 SHEETS

LEGEND

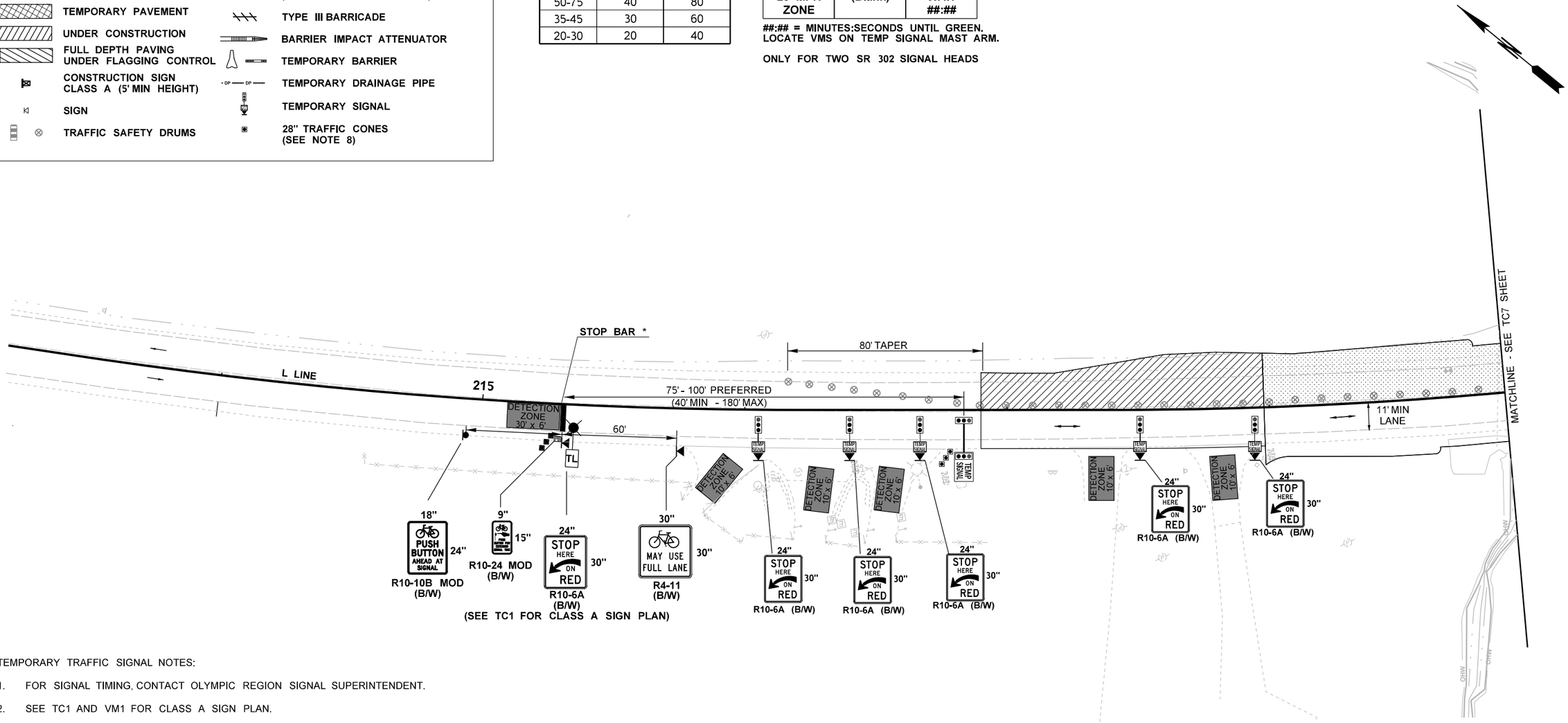
- PREVIOUSLY CONSTRUCTED
- TEMPORARY PAVEMENT
- UNDER CONSTRUCTION
- FULL DEPTH PAVING UNDER FLAGGING CONTROL
- CONSTRUCTION SIGN CLASS A (5' MIN HEIGHT)
- SIGN
- TRAFFIC SAFETY DRUMS
- LANE USAGE (TRAFFIC FLOW DIRECTION)
- TYPE III BARRICADE
- BARRIER IMPACT ATTENUATOR
- TEMPORARY BARRIER
- TEMPORARY DRAINAGE PIPE
- TEMPORARY SIGNAL
- 28" TRAFFIC CONES (SEE NOTE 8)

MAXIMUM DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50-75	40	80
35-45	30	60
20-30	20	40

WAIT-TIME DISPLAY VMS		
GREEN	YELLOW	RED
25 MPH ZONE	(Blank)	WAIT ##:##

##:## = MINUTES:SECONDS UNTIL GREEN.
LOCATE VMS ON TEMP SIGNAL MAST ARM.

ONLY FOR TWO SR 302 SIGNAL HEADS



(SEE TC1 FOR CLASS A SIGN PLAN)

TEMPORARY TRAFFIC SIGNAL NOTES:

1. FOR SIGNAL TIMING, CONTACT OLYMPIC REGION SIGNAL SUPERINTENDENT.
2. SEE TC1 AND VM1 FOR CLASS A SIGN PLAN.
3. TO CONTROL WITH FLAGGING, PLACE FLAGGERS AT OR BEFORE STOP LINE LOCATIONS AND TURN TEMPORARY TRAFFIC SIGNAL OFF, REPLACE SIGN W3-3 ON SHEET TC1 WITH SIGN W20-7A DURING FLAGGING OPERATION, SEE TC10 FOR ADDITIONAL FLAGGING STATION DETAILS.
4. ALL PAVEMENT MARKINGS SHALL BE PREFORMED REMOVABLE TAPE.
5. CONTRACTOR SHALL COORDINATE WITH RESIDENCE AND MAINTAIN DRIVEWAYS WHERE SHOWN ON PLANS.
6. FOR TEMPORARY LIGHTING SEE SHEET ILT1

* ITEM INSTALLED IN STAGE 1

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PLOTTED BY	LEMKEP				23C508		
DESIGNED BY	P. LEMKE				CONTRACT NO.		LOCATION NO.
ENTERED BY	P. LEMKE						XL6186
CHECKED BY	B. DEARING						
PROJ. ENGR.	B. KRAMER						
REGIONAL ADM.	S. ROARK	REVISION	DATE	BY			

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SR 302
VICTOR CREEK
REMOVE FISH BARRIER

TRAFFIC CONTROL PLAN - STAGE 3

PLAN REF NO TC6

SHEET 91 OF 95 SHEETS

MAXIMUM CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50-75	40	80
35-45	30	60
20-30	20	40

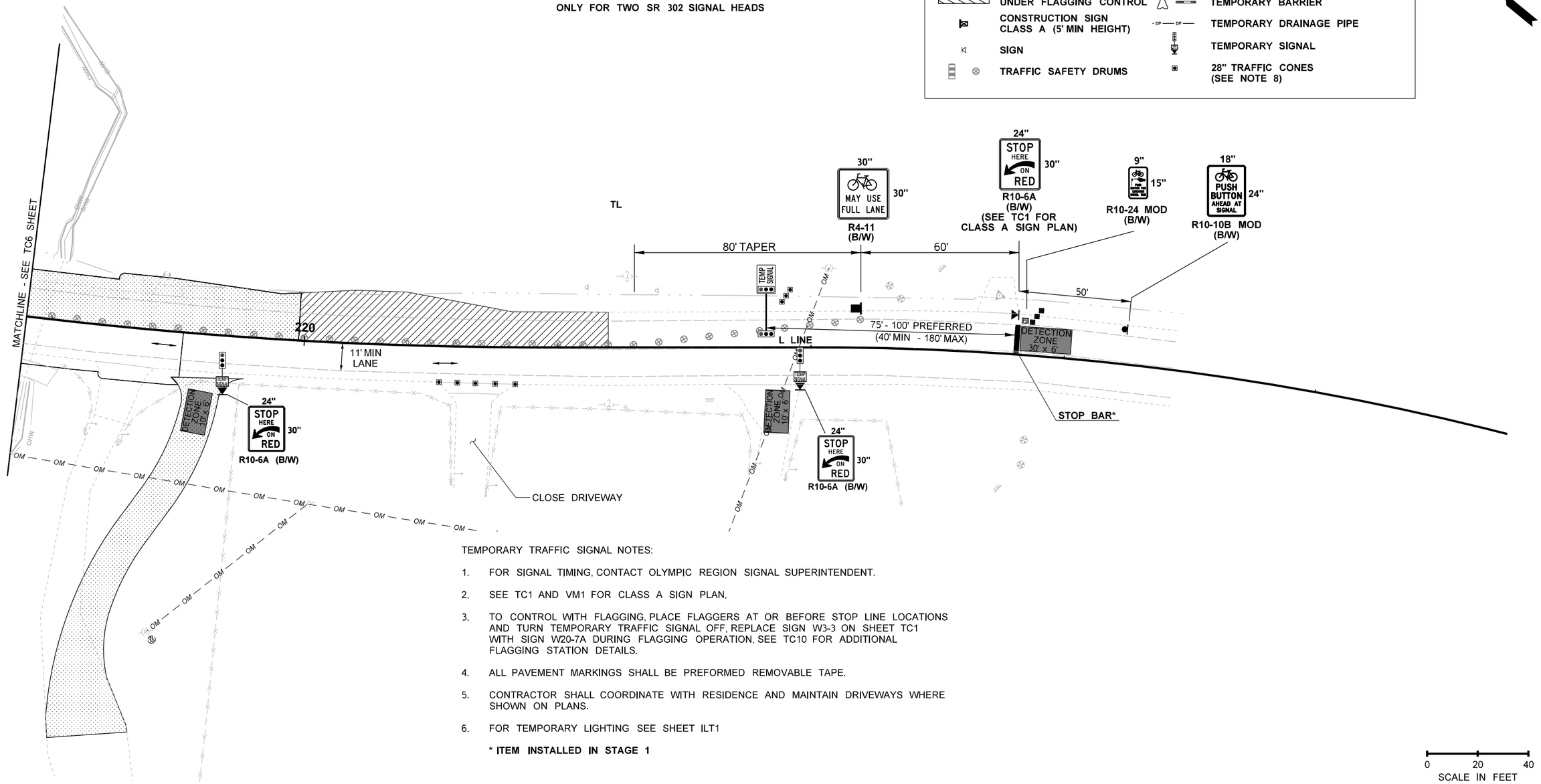
WAIT-TIME DISPLAY VMS		
GREEN	YELLOW	RED
25 MPH ZONE	(Blank)	WAIT ##:##

##:## = MINUTES:SECONDS UNTIL GREEN.
LOCATE VMS ON TEMP SIGNAL MAST ARM.

ONLY FOR TWO SR 302 SIGNAL HEADS

LEGEND

- PREVIOUSLY CONSTRUCTED
- TEMPORARY PAVEMENT
- UNDER CONSTRUCTION
- FULL DEPTH PAVING UNDER FLAGGING CONTROL
- CONSTRUCTION SIGN CLASS A (5' MIN HEIGHT)
- SIGN
- TRAFFIC SAFETY DRUMS
- LANE USAGE (TRAFFIC FLOW DIRECTION)
- TYPE III BARRICADE
- BARRIER IMPACT ATTENUATOR
- TEMPORARY BARRIER
- TEMPORARY DRAINAGE PIPE
- TEMPORARY SIGNAL
- 28" TRAFFIC CONES (SEE NOTE 8)



TEMPORARY TRAFFIC SIGNAL NOTES:

1. FOR SIGNAL TIMING, CONTACT OLYMPIC REGION SIGNAL SUPERINTENDENT.
2. SEE TC1 AND VM1 FOR CLASS A SIGN PLAN.
3. TO CONTROL WITH FLAGGING, PLACE FLAGGERS AT OR BEFORE STOP LINE LOCATIONS AND TURN TEMPORARY TRAFFIC SIGNAL OFF, REPLACE SIGN W3-3 ON SHEET TC1 WITH SIGN W20-7A DURING FLAGGING OPERATION, SEE TC10 FOR ADDITIONAL FLAGGING STATION DETAILS.
4. ALL PAVEMENT MARKINGS SHALL BE PREFORMED REMOVABLE TAPE.
5. CONTRACTOR SHALL COORDINATE WITH RESIDENCE AND MAINTAIN DRIVEWAYS WHERE SHOWN ON PLANS.
6. FOR TEMPORARY LIGHTING SEE SHEET ILT1

*** ITEM INSTALLED IN STAGE 1**

FILE NAME	c:\users\lemkep\pw_wsdot\d0545011\XL6186_PS_TC_007.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
TIME	8:04:24 PM				10	WASH	
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PLOTTED BY	LEMKEP				23C508		
DESIGNED BY	P. LEMKE				CONTRACT NO.		LOCATION NO.
ENTERED BY	P. LEMKE						XL6186
CHECKED BY	B. DEARING						
PROJ. ENGR.	B. KRAMER						
REGIONAL ADM.	S. ROARK	REVISION	DATE	BY			

P.E. STAMP BOX — DATE

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SR 302
VICTOR CREEK
REMOVE FISH BARRIER

TRAFFIC CONTROL PLAN - STAGE 3

PLAN REF NO TC7

SHEET 92 OF 95 SHEETS

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LEGEND

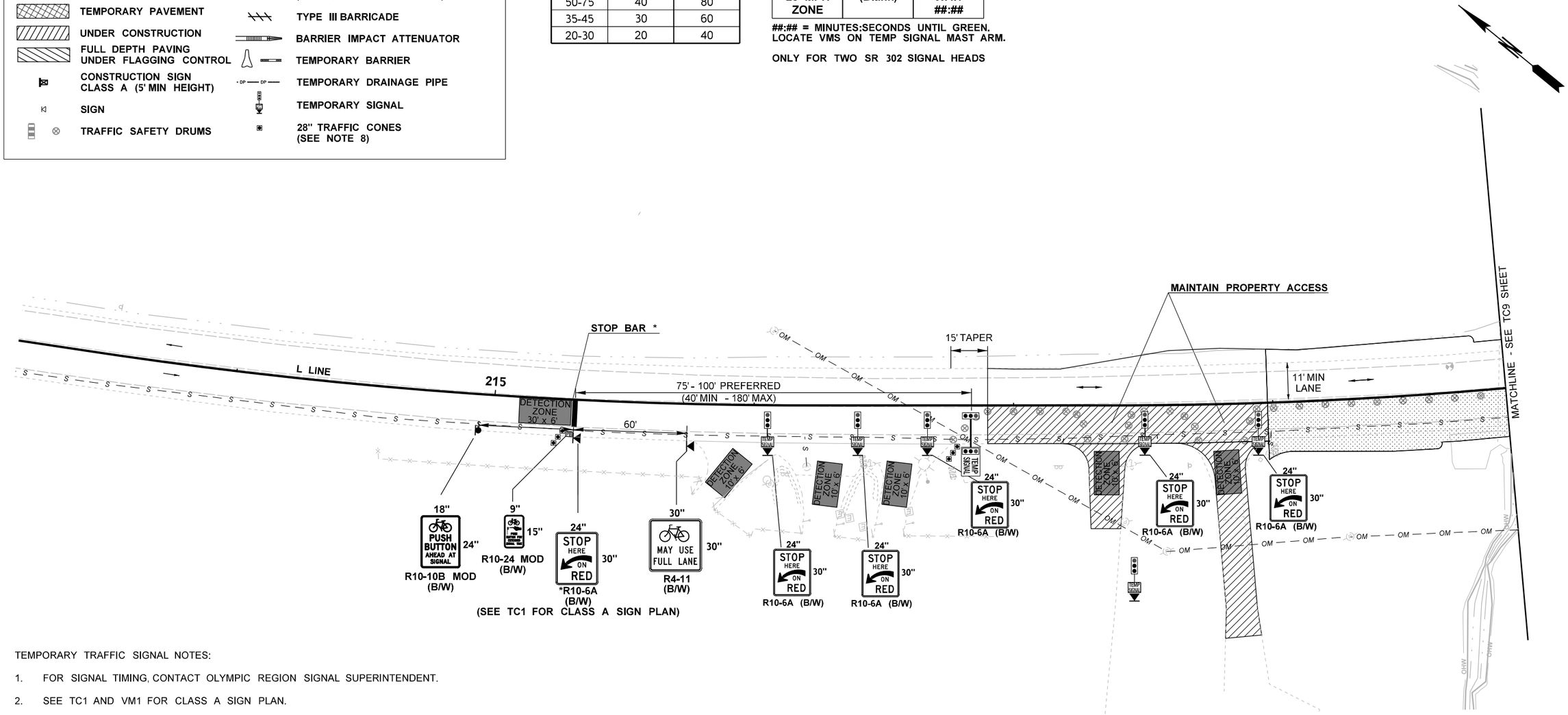
PREVIOUSLY CONSTRUCTED	LANE USAGE (TRAFFIC FLOW DIRECTION)
TEMPORARY PAVEMENT	TYPE III BARRICADE
UNDER CONSTRUCTION	BARRIER IMPACT ATTENUATOR
FULL DEPTH PAVING UNDER FLAGGING CONTROL	TEMPORARY BARRIER
CONSTRUCTION SIGN CLASS A (5' MIN HEIGHT)	TEMPORARY DRAINAGE PIPE
SIGN	TEMPORARY SIGNAL
TRAFFIC SAFETY DRUMS	28" TRAFFIC CONES (SEE NOTE 8)

MAXIMUM DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50-75	40	80
35-45	30	60
20-30	20	40

WAIT-TIME DISPLAY VMS		
GREEN	YELLOW	RED
25 MPH ZONE	(Blank)	WAIT ##:##

##:## = MINUTES:SECONDS UNTIL GREEN.
LOCATE VMS ON TEMP SIGNAL MAST ARM.

ONLY FOR TWO SR 302 SIGNAL HEADS



(SEE TC1 FOR CLASS A SIGN PLAN)

TEMPORARY TRAFFIC SIGNAL NOTES:

1. FOR SIGNAL TIMING, CONTACT OLYMPIC REGION SIGNAL SUPERINTENDENT.
2. SEE TC1 AND VM1 FOR CLASS A SIGN PLAN.
3. TO CONTROL WITH FLAGGING, PLACE FLAGGERS AT OR BEFORE STOP LINE LOCATIONS AND TURN TEMPORARY TRAFFIC SIGNAL OFF, REPLACE SIGN W3-3 ON SHEET TC1 WITH SIGN W20-7A DURING FLAGGING OPERATION, SEE TC10 FOR ADDITIONAL FLAGGING STATION DETAILS.
4. ALL PAVEMENT MARKINGS SHALL BE PREFORMED REMOVABLE TAPE.
5. CONTRACTOR SHALL COORDINATE WITH RESIDENCE AND MAINTAIN DRIVEWAYS WHERE SHOWN ON PLANS.
6. FOR TEMPORARY LIGHTING SEE SHEET ILT1

* ITEM INSTALLED IN STAGE 1

FILE NAME	c:\users\lemkep\pw_wsdot\d0545011\XL6186_PS_TC_008.dgn
TIME	8:06:13 PM
DATE	1/31/2024
PLOTTED BY	LEMKEP
DESIGNED BY	P. LEMKE
ENTERED BY	P. LEMKE
CHECKED BY	B. DEARING
PROJ. ENGR.	B. KRAMER
REGIONAL ADM.	S. ROARK

REVISION	DATE	BY

REGION NO. 10 | STATE WASH
JOB NUMBER 23C508
CONTRACT NO.
FED.AID PROJ.NO.
LOCATION NO. XL6186

P.E. STAMP BOX
DATE

JACOBS

Washington State Department of Transportation

SR 302
VICTOR CREEK
REMOVE FISH BARRIER

TRAFFIC CONTROL PLAN - STAGE 4

PLAN REF NO TC8

SHEET 93 OF 95 SHEETS

MAXIMUM CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50-75	40	80
35-45	30	60
20-30	20	40

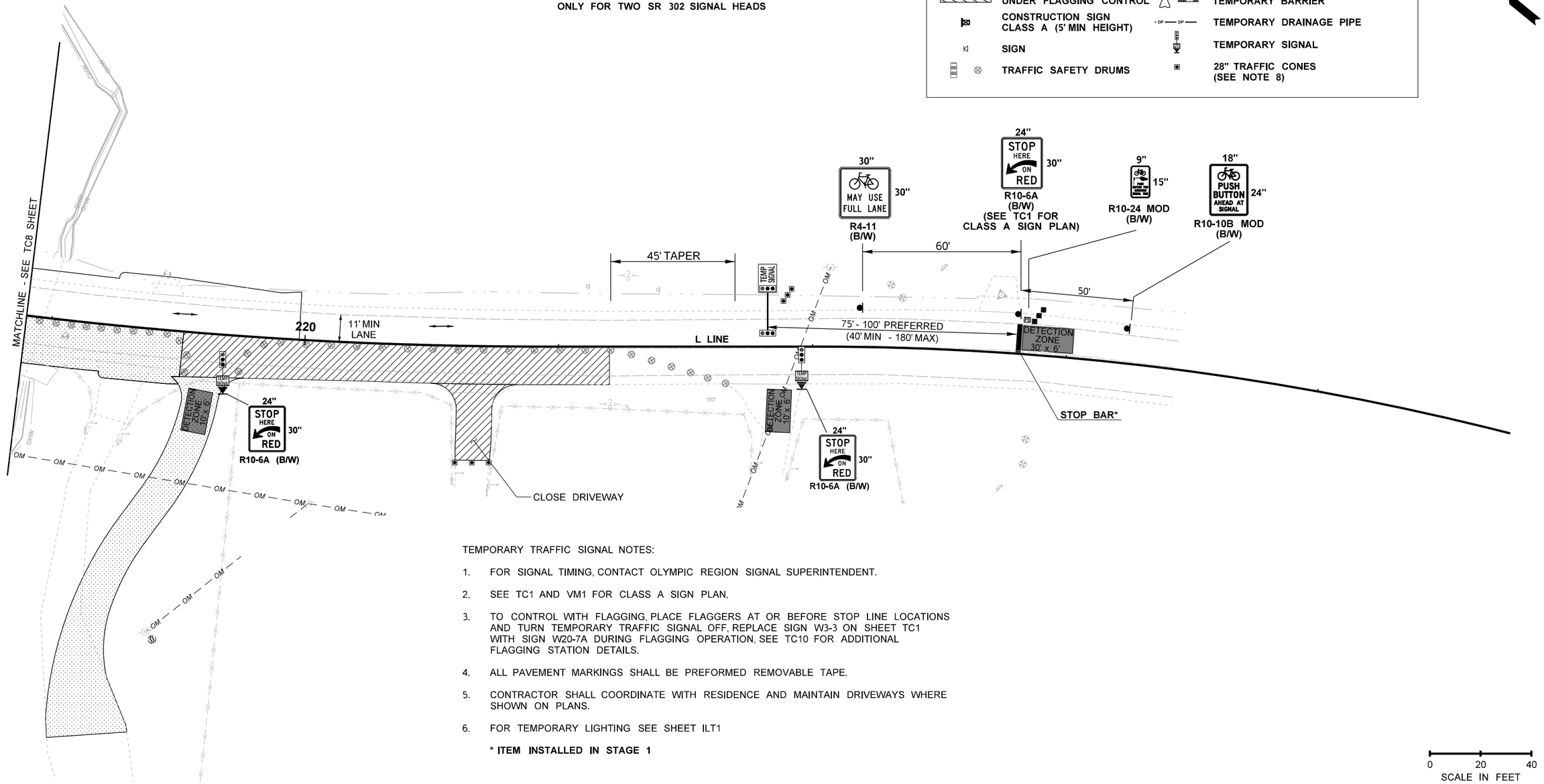
WAIT-TIME DISPLAY VMS		
GREEN	YELLOW	RED
25 MPH ZONE	(Blank)	WAIT ##:##

##:## = MINUTES:SECONDS UNTIL GREEN.
LOCATE VMS ON TEMP SIGNAL MAST ARM.

ONLY FOR TWO SR 302 SIGNAL HEADS

LEGEND

- PREVIOUSLY CONSTRUCTED
- TEMPORARY PAVEMENT
- UNDER CONSTRUCTION
- FULL DEPTH PAVING UNDER FLAGGING CONTROL
- CONSTRUCTION SIGN CLASS A (5' MIN HEIGHT)
- SIGN
- TRAFFIC SAFETY DRUMS
- LANE USAGE (TRAFFIC FLOW DIRECTION)
- TYPE III BARRICADE
- BARRIER IMPACT ATTENUATOR
- TEMPORARY BARRIER
- TEMPORARY DRAINAGE PIPE
- TEMPORARY SIGNAL
- 28" TRAFFIC CONES (SEE NOTE 8)



TEMPORARY TRAFFIC SIGNAL NOTES:

1. FOR SIGNAL TIMING, CONTACT OLYMPIC REGION SIGNAL SUPERINTENDENT.
2. SEE TC1 AND VM1 FOR CLASS A SIGN PLAN.
3. TO CONTROL WITH FLAGGING, PLACE FLAGGERS AT OR BEFORE STOP LINE LOCATIONS AND TURN TEMPORARY TRAFFIC SIGNAL OFF, REPLACE SIGN W3-3 ON SHEET TC1 WITH SIGN W20-7A DURING FLAGGING OPERATION, SEE TC10 FOR ADDITIONAL FLAGGING STATION DETAILS.
4. ALL PAVEMENT MARKINGS SHALL BE PREFORMED REMOVABLE TAPE.
5. CONTRACTOR SHALL COORDINATE WITH RESIDENCE AND MAINTAIN DRIVEWAYS WHERE SHOWN ON PLANS.
6. FOR TEMPORARY LIGHTING SEE SHEET ILT1

*** ITEM INSTALLED IN STAGE 1**

0 20 40
SCALE IN FEET

pw:\\projectstore.wsdot.wa.gov:WSDOT\Documents_HQ\Fish Passage\ORproj\000\Y12554\Task Order AQ\700PROJTEC\702 Roadway\Sheets\XL6186_PS_TC_009.dgn

FILE NAME	c:\users\lemkep\pw_wsdot\d0545011\XL6186_PS_TC_009.dgn				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
TIME	8:07:14 PM						
DATE	1/31/2024						
PLOTTED BY	LEMKEP				JOB NUMBER 23C508		
DESIGNED BY	P. LEMKE						
ENTERED BY	P. LEMKE				CONTRACT NO.		LOCATION NO. XL6186
CHECKED BY	B. DEARING						
PROJ. ENGR.	B. KRAMER						
REGIONAL ADM.	S. ROARK	REVISION	DATE	BY			

P.E. STAMP BOX — DATE

JACOBS

Washington State Department of Transportation

SR 302
VICTOR CREEK
REMOVE FISH BARRIER

TRAFFIC CONTROL PLAN - STAGE 4

PLAN REF NO TC9

SHEET 94 OF 95 SHEETS

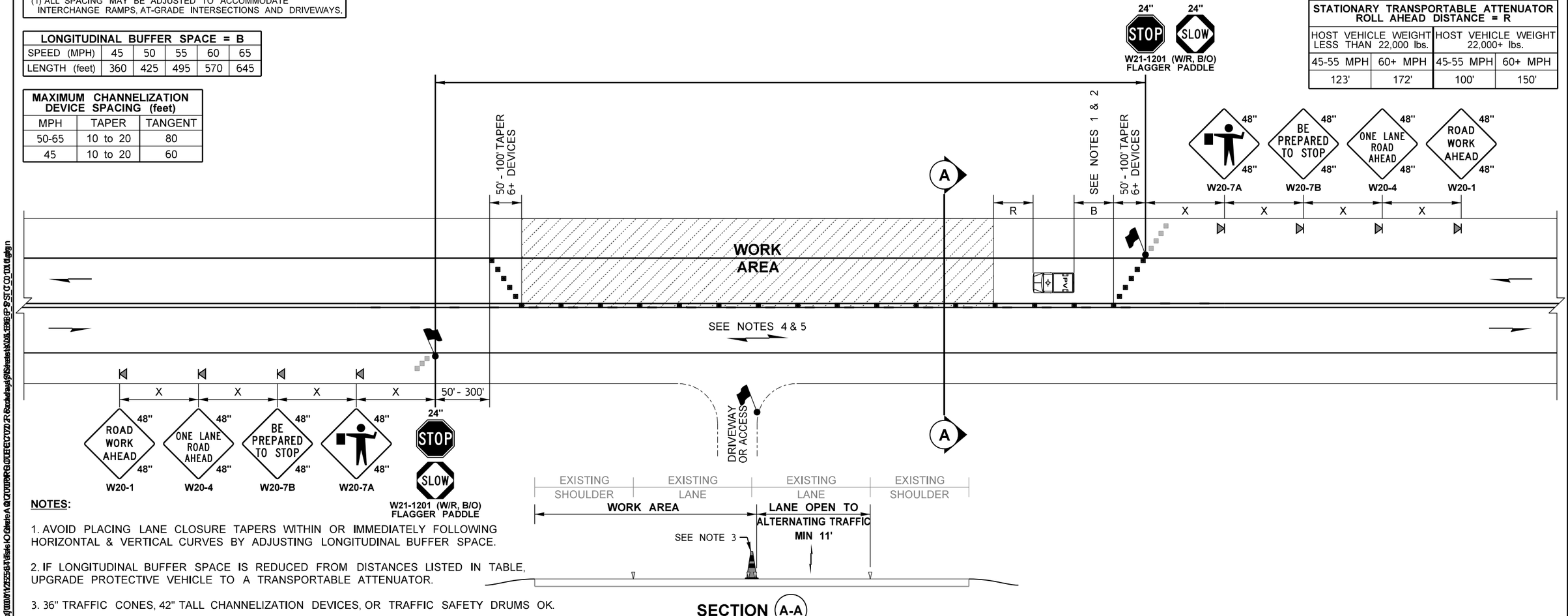
SIGN SPACING = X (1)		
RURAL HIGHWAYS	60-65 MPH	800' +/-
RURAL ROADS	45-55 MPH	500' +/-
(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMPS, AT-GRADE INTERSECTIONS AND DRIVEWAYS.		

LONGITUDINAL BUFFER SPACE = B					
SPEED (MPH)	45	50	55	60	65
LENGTH (feet)	360	425	495	570	645

MAXIMUM CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50-65	10 to 20	80
45	10 to 20	60

PROTECTIVE VEHICLE ROLL AHEAD DISTANCE = R
NO SPECIFIED DISTANCE REQUIRED. STRATEGICALLY POSITION WORK VEHICLE TO PROTECT WORK CREW.

STATIONARY TRANSPORTABLE ATTENUATOR ROLL AHEAD DISTANCE = R			
HOST VEHICLE WEIGHT LESS THAN 22,000 lbs.		HOST VEHICLE WEIGHT 22,000+ lbs.	
45-55 MPH	60+ MPH	45-55 MPH	60+ MPH
123'	172'	100'	150'



SECTION (A-A)

NOTES:

1. AVOID PLACING LANE CLOSURE TAPERS WITHIN OR IMMEDIATELY FOLLOWING HORIZONTAL & VERTICAL CURVES BY ADJUSTING LONGITUDINAL BUFFER SPACE.

2. IF LONGITUDINAL BUFFER SPACE IS REDUCED FROM DISTANCES LISTED IN TABLE, UPGRADE PROTECTIVE VEHICLE TO A TRANSPORTABLE ATTENUATOR.

3. 36" TRAFFIC CONES, 42" TALL CHANNELIZATION DEVICES, OR TRAFFIC SAFETY DRUMS OK.

4. BICYCLISTS MAY BE COMBINED WITH ALTERNATING VEHICULAR TRAFFIC. BIKES TO CLEAR PRIOR TO FLAGGERS RELEASING ONCOMING TRAFFIC.

5. ACCOMMODATE PEDESTRIANS VIA SHUTTLE THROUGH LANE CLOSURE, USING THE PAVED SHOULDER OPPOSITE THE WORK AREA, OR ANOTHER METHOD THE ENGINEER ACCEPTS.

LEGEND:

- TEMPORARY SIGN LOCATION
- 28" REFLECTIVE TRAFFIC CONE (SEE NOTE 3)
- OPTIONAL CHANNELIZATION DEVICE
- PROTECTIVE VEHICLE (SEE NOTE 2)
- FLAGGER

NOTES CONT:

6. SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE INDICATED.

7. WORK MAY OCCUR ACROSS INTERSECTING ROADWAY APPROACH BY HOLDING ACCESS TRAFFIC UP TO 5 MINUTES AND RESTRICTING TURNS FROM MAINLINE. CHANNELIZATION DEVICES DELINEATING APPROACH MAY BE REMOVED.

ALTERNATING 1-LANE, 2-WAY TRAFFIC: FLAGGER-CONTROLLED

NOT TO SCALE

FILE NAME	c:\users\lemkep\pw_wsdot\d0545011\XL6186_PS_TC_010.dgn						
TIME	8:08:07 PM				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
DATE	1/31/2024						
PLOTTED BY	LEMKEP				JOB NUMBER 23C508		
DESIGNED BY	P. LEMKE						
ENTERED BY	P. LEMKE				CONTRACT NO.	LOCATION NO. XL6186	
CHECKED BY	B. DEARING						
PROJ. ENGR.	B. KRAMER						
REGIONAL ADM.	S. ROARK	REVISION	DATE	BY			

P.E. STAMP BOX — DATE

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SR 302
VICTOR CREEK
REMOVE FISH BARRIER

PROJECT FLAGGING TCP

PLAN REF NO TC10

SHEET 95 OF 95 SHEETS